



NATO UNCLASSIFIED

**Acquisition Directorate**

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NCIA/ACQ/2020/6989

24 September 2020

To: See Distribution List

Subject: **Request for Quotation RFQ-CO-115268-AFAP  
Procurement of Passive Network Structured Cabling for the  
Technical Facilities at the NCI Agency The Hague**

Reference: A. AC/4-D/2261 (1996 Edition)  
B. AC/4-D(2019)0004 (INV) dated 12 July 2019  
C. C-M(2002)49 – NATO Security Policy  
D. AC/4 (PP)D/27701-ADD5  
E. NOI-RFQ-115268-FGFS dated 25 August 2020

Dear Sir/Madam,

1. Your firm is hereby invited to participate in a Request for Quote under Basic Ordering Agreement (BOA) Plus bidding procedure for the provision of "Passive Network Structured Cabling for the Technical Facilities at the NCI Agency The Hague".
2. NATO will place one contract to cover the entire scope of the project.
3. The award will be based on the proposal evaluated as the lowest price, technically compliant in accordance with the selection criteria set forth in the Bidding Instructions.
4. **THE CLOSING TIME FOR SUBMISSION OF BIDS IN RESPONSE TO THIS REQUEST FOR QUOTATION IS 12:00 HOURS (BRUSSELS TIME) ON FRIDAY 23 OCTOBER 2020.**
5. This Request for Quotation consists of the following documents:
  - a) Book I – Bidding Instructions. This provides the general bidding information and includes the following annexes:
    - i. Annex A – Bidding Sheets – The bidding sheets should be completed exactly as instructed.
    - ii. Annex C – Certificates.
  - b) Book II – Prospective Contract. This contains the following sections:
    - i. Contract Special terms and conditions.



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et de communication  
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1110 Brussels, Belgium  
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- ii. The terms and conditions of the BOA between the contractor and the NCI Agency.
  - iii. The Statement of Work. This sets forth the detailed specifications governing the performance requirements of the contract.
6. The overall security classification of this Request for Quotation is "NATO UNCLASSIFIED". This Request for Quotation remains the property of the NCI Agency and shall be protected in accordance with the applicable national security regulations.
7. The Bidders have the right to request RFQ clarifications as outlined in section 2.6 of the Bidding Instructions (Book I).
8. Execution of the proposed contract may require unescorted access and work of contractor personnel at NATO Class I and II security areas, and in accordance with Reference C, personnel of the winning bidder will be required to hold individual security clearances of "NATO SECRET". Only companies maintaining appropriate personnel clearances will be able to perform the resulting contract. Bidders are to note that contract award will not be delayed in order to allow Contractor personnel to obtain missing clearances.
9. Prospective Bidders are hereby invited to participate in a Site Visit that is scheduled to be held at the NCI Agency, The Hague on 09 October 2020. Please note that participation in Site Visit **is not mandatory** and bids shall be received and evaluated from Bidders who have not attended a Site Visit.
10. Those companies that wish to participate in the Site Visit shall indicate their intention by filling out the Registration Form that is attached as Attachment B to this letter not later than 02 October 2020. Additional information regarding this event is included in the attached Book I, Bidding Instructions Paragraph 1.4.
11. You are requested to complete and return the enclosed acknowledgement of receipt within 5 days of receipt of this RFQ, informing NCI Agency of your intention to bid/not to bid. Your firm is not bound by its initial decision, and if you decide to reverse your stated intention at a later date, you are requested to advise us by a separate letter.
12. The reference for this RFQ is RFQ-CO-115268-AFAP, and all correspondence concerning the RFQ should reference this number.
13. Prospective Bidders are advised that the NCI Agency reserves the right to cancel this RFQ at any time in its entirety and bears no liability for bid preparation costs incurred by firms or any other collateral costs if bid cancellation occurs.
14. Your point of contact for all information concerning this RFQ is Ms. Natalia Wojciak, who may be reached at [Natalia.Wojciak@ncia.nato.int](mailto:Natalia.Wojciak@ncia.nato.int).

For the Director of Acquisition:



Ijeoma Ike-Meertens  
Senior Contracting Officer



**Attachment:**

- A) Acknowledgement of Receipt of RFQ-115268-AFAP
- B) Registration Form for Site Visit
- C) Final List of Bidders

**Distribution List for RFQ-CO-115268-AFAP**

- **NATO Delegations (Attn: Infrastructure Adviser)**
  - Albania
  - Belgium
  - Bulgaria
  - Canada
  - Croatia
  - Czech Republic
  - Denmark
  - Estonia
  - France
  - Germany
  - Greece
  - Hungary
  - Iceland
  - Italy
  - Latvia
  - Lithuania
  - Luxembourg
  - Montenegro
  - The Netherlands
  - North Macedonia
  - Norway
  - Poland
  - Portugal
  - Romania
  - Slovakia
  - Slovenia
  - Spain
  - Turkey
  - United Kingdom
  - United States
  
- **NATO HQ**
  - NATO Office of Resources, Management and Implementation Branch – Attn:  
Deputy Branch Chief
  - Director, NATO HQ C3 Staff, Attn: Executive Co-ordinator
  - SACTREPEUR, Attn: Infrastructure Assistant
  - SHAPE, Attn: J3 & J2
  
- **Strategic Commands**
  - HQ SACT Attn: R&D Contracting Office
  - ACO Liaison Office
  
- **All NATEXs**
- **NCI Agency – Internal**



**Attachment A**

**Acknowledgement of Receipt of Request for Quotation**

**RFQ-CO-115268-AFAP**

**Please complete and return within 5 days by e-mail to [Natalia.Wojciak@ncia.nato.int](mailto:Natalia.Wojciak@ncia.nato.int),  
for the attention of Ms. Natalia Wojciak**

We hereby advise that we have received Request for Quotation RFQ-CO-115268-AFAP  
on ....., together with all enclosures listed in the Table of Contents.

**CHECK ONE**

- { } As of this date and without commitment on our part, we do intend to submit a bid.
- { } We do not intend to submit a bid.
- { } We are reviewing the requirements of the RFQ and will notify you of our decision as soon as possible.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_



**Attachment B**  
**REGISTRATION FORM SITE VISIT**  
**RFQ-CO-115268-AFAP**

**Friday 09 October 2020 The Hague, The Netherlands**

Please complete and return by Close of Business Friday, 02 October 2020, by e-mail to [Natalia.Wojciak@ncia.nato.int](mailto:Natalia.Wojciak@ncia.nato.int)

The following individuals (maximum 2 per company) will be in attendance:

1. Name, First Name: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
Passport/ID Number: \_\_\_\_\_  
Security Clearance:  Yes  No

2. Name, First Name: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
Passport/ID Number: \_\_\_\_\_  
Security Clearance:  Yes  No

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_



September 24, 2020 10:19 AM

## Attachment C

### RFQ-CO-115268-AFAP Final List of Bidders

Country	Vendor
<b>ALBANIA</b>	TCN shpk
<b>BELGIUM</b>	ATOS BE NETWORKS Brevco Services S.C.S. Computacenter NV Proximus SpearIT NV RHEA System S.A. UNIFY COMMUNICATIONS Van Roey Automation NV
<b>BULGARIA</b>	Lirex BG Ltd Telelink EAD
<b>CANADA</b>	Fiber Connections Inc. Network Innovations Inc. Norsat International Inc.
<b>CROATIA</b>	Asseco SEE d.o.o. CS Computer Systems Ltd KING ICT d.o.o. Senso IS d.o.o. Span PLC
<b>CZECH REPUBLIC</b>	Damovo Ceska republika s.r.o. GTS Czech, s.r.o. SITEL, spol. s r.o. TTC Telekomunikace, s.r.o. Techniserv, s.r.o.
<b>DENMARK</b>	Danoffice ApS SAAB Danmark A/S
<b>ESTONIA</b>	Telegrupp AS
<b>FRANCE</b>	CS Systèmes d'Informations INEO Defense MARLINK SAS Société Réseau Informatique et Gestion
<b>GERMANY</b>	Bechtle GmbH & Co.KG CONET Solutions GmbH FREQUENTIS Deutschland GmbH KB Impuls Service GmbH Rohde & Schwarz GmbH & Co. KG T-Systems International GmbH XORTEC GmbH



## RFQ-CO-115268-AFAP Bidders List

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<i>Country</i>	<i>Vendor</i>
<b>GERMANY</b>	
<b>GREECE</b>	INTRACOM TELECOM S.A. Info-Quest SA
<b>HUNGARY</b>	Honvédelmi Minisztérium Elektronikai, Logisztikai és Vagyonkezelő zrt. Kapsch BusinessCom Kft. S&T Consulting Hungary Ltd. Getronics Magyarország
<b>ITALY</b>	IES - S.r.L. ITEL SRL Italtel NA.EL. SRL SMS Engineering srl TELSY S.p.A. Valtellina Spa
<b>LATVIA</b>	Datakom LTD SIA Fima
<b>LITHUANIA</b>	Blue Bridge JSC FIMA (UAB)
<b>LUXEMBOURG</b>	NTT LUXEMBOURG PSF SA SNOWBALL TECHNOLOGY SARL
<b>NETHERLANDS</b>	Global Crossing Misco Nederland BV Network Innovations B.V. ROHDE & SCHWARZ BENELUX BV The IP Company Tucana Telecom B.V. UNI Business Centre BV
<b>NORWAY</b>	3D perception AS Atea Norge AS Evry Zenitel Norway AS
<b>POLAND</b>	DGT Spółka z o.o. EXATEL S.A. Newind sp. z o.o. Teldat Sp. Z.o.o. sp.k. Telmont S.A. Unizeto Technologies SA Zbar Phu Mariusz Popena





## RFQ-CO-115268-AFAP Bidders List

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<b>Country</b>	<b>Vendor</b>
<b>PORTUGAL</b>	EID S.A. VIATEL - TECNOLOGIA DE COMUNICAÇÕES S.A
<b>ROMANIA</b>	AGRO-IND MANAGEMENT SRL ATOS Convergence Creators SRL Romsys SRL UTI Grup S.A. certSIGN S.A.
<b>SLOVAKIA</b>	Aliter Technologies a.s
<b>SPAIN</b>	Indra Sistemas S.A. Informatica El Corte Ingles (IECISA)
<b>TURKEY</b>	E+M Elektrik Sistem Hizmetleri Ltd. Sti. Global Teknik Elektronik Yazilim Muhendislik Havacilik San. Tic. A.S. Guris Insaat Ve Muhendislik AS HAVELSAN Hava Elektronik San. Ve Tic A.S. Kuanta Insaat Taahhut Elektronik Turizm MANTIS Software & Consultancy Company Mesa Mesken Sanayii A.S. Onur Mühendislik Anonim Sirketi Suta Insaat ve Muhendislik Sirketi
<b>UNITED KINGDOM</b>	Avanti Communications Group plc GGR Communications Ltd UK Integrated Network Hardware Storm Technologies Ltd Systemware Europe Ltd TRICIS LIMITED Total IA Ltd Voice Concepts Ltd.
<b>UNITED STATES</b>	AS GLOBAL Extreme Networks, Inc. Intelligent Waves LLC PlanIT Group LLC SBG Technology Solutions Sprint Communications Company, L.P. Strategic Operational Solutions, Inc Trimble Inc US International Development Consortium
<b>Total :</b>	<b>111</b>



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**BOOK I**

**BIDDING INSTRUCTIONS**

**RFQ-CO-115268-AFAP**

**Provision of Passive Network Structured Cabling for the  
Technical Facilities at the NCI Agency The Hague**

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## **SECTION I – INTRODUCTION**

### **1.1. PURPOSE**

**1.1.1.** The purpose of this Request for Quote (RFQ) is to establish a Contract for the provision of a Structured Cabling System, also referred to as the Passive Network Infrastructure (PNWI), into specialised technical areas in the refurbished NCI Agency building in The Hague (The Netherlands). The horizontal and vertical Structured Cabling System (PNWI) provided during building construction shall be complemented by the specific Structured Cabling needs (PNWI) provided to the special areas of the Main Equipment Room (MER - a small datacentre) and the Laboratories which are in the scope of the RFQ. Successful implementation of the new Structured Cabling System (PNWI) and its integration with the existing cabling system requires certified installers who can provide long term warranty and maintenance of the installation.

### **1.2. RFQ PROCEDURE**

**1.2.1.** This solicitation is a Request for Quote (RFQ) and is issued in accordance with the Procedures Governing the Use of Basic Ordering Agreements (BOAs) set forth in the NATO document AC/4-D(2019)0004 (INV).

**1.2.2.** Award of a Contract pursuant to this RFQ will be made to the firm that has offered the lowest evaluated price and has been determined to be technically compliant with the requirements of the RFQ in accordance with the evaluation criteria. The Bid evaluation criteria and the detailed evaluation procedure are described in Section IV of these Bidding Instructions.

**1.2.3.** This RFQ will not be the subject of a public Bid opening.

**1.2.4.** Award of the resulting Contract will be made on a firm fixed price basis.

**1.2.5.** The solicitation, evaluation and award processes will be conducted in accordance with the terms and conditions contained herein.

**1.2.6.** A single contract will be placed with one Contractor. No partial bidding shall be allowed.

### **1.3. SECURITY**

**1.3.1.** The security classification of the RFQ documentation is “NATO UNCLASSIFIED”.

**1.3.2.** All Contractor and Sub-Contractor personnel working under the prospective Contract at Purchaser facilities shall have a security clearance of “NATO SECRET” confirmed to the Purchaser by the relevant National Security

Authority. Contractor personnel without such a clearance will be denied access to the Purchaser's facilities. Denial of such access by the Purchaser may not be used by the prospective Contractor as the basis for a claim of adjustment or an extension of the schedule, nor can the denial of access be considered a mitigating circumstance in the case of an assessment of Liquidated Damages or a determination of Termination for Default by the Purchaser under the prospective Contract.

- 1.3.3.** Bidders are advised that Contract signature will not be delayed in order to allow the processing of security clearances for personnel and, should the otherwise successful Bidder not be in a position to accept the offered Contract within a reasonable period of time, due to the fact that its personnel, or those of prospective subcontractors, do not possess the appropriate security clearance(s), the Purchaser may determine the Bidder's Offer to be non-compliant and offer the Contract to the next ranking Bidder.
- 1.3.4.** Bidders are informed that the Prospective Contractor shall conform to the above requirements at the time of Contract Award.

#### **1.4. SITE VISIT**

- 1.4.1.** Prospective Bidders are invited to participate in a Site Visit that will be held **from 09:00 to 16:00 on Friday, 09 October 2020** at the Purchaser's facility in The Hague, the Netherlands.
- 1.4.2.** Please note that participation in Site Visit **is not mandatory** and bids shall be received and evaluated from Bidders who have not attended a Site Visit.
- 1.4.3.** Participation in the Site Visit is limited to a maximum of two (2) persons per company.
- 1.4.4.** Those Bidders, who wish to participate in the Site Visit, shall indicate their intention to attend not later than **02 October 2020, Close of Business**, stating the company representatives, who will attend and forward their security information using the **Registration Form, which is enclosed to the cover letter of this RFQ**, to the NCI Agency point of contact mentioned in paragraph 2.5 below. Security clearances are not required to attend a Site Visit.
- 1.4.5.** All costs related to the Bidders' participation in the Site Visit shall be the assumed by the Bidders. Prospective Bidders are advised that the Purchaser reserves the right to cancel the Site Visit, or to change the date or venue at any time, should unforeseen circumstances necessitate such action. In this case, no legal liability on the part of the Purchaser for payment of any sort shall arise and in no event will any Bidder have cause for action against the Purchaser for the recovery of costs incurred in connection with planned participation in the Site Visit.
- 1.4.6.** If any questions are asked during the Site Visit, the Purchaser may attempt to answer them at that time, but any answer that may appear to amend terms, conditions and/or specifications of the Contract shall be considered to be

formally included in the RFQ only when a written amendment to the RFQ is issued in writing by the Purchaser.

- 1.4.7.** Answers to all questions will be issued in writing to all Bidders as soon as practicable after the Site Visit, whether or not Bidders attended. The formal written answers will be the official response of the Agency, even if the written answer differs from the verbal response provided during the Site Visit.
- 1.4.8.** Notwithstanding the written answers provided by the NCI Agency after the Site Visit, the terms, conditions and language of the RFQ remains unchanged unless a formal RFQ amendment is issued by the NCI Agency and is identified as such.

## **SECTION II - GENERAL BIDDING INFORMATION**

### **2.1 DEFINITIONS**

- 2.1.1** The term “Assembly” as used herein means an item forming a portion of equipment that can be provisioned and replaced as an entity and which normally incorporates replaceable parts or groups of parts.
- 2.1.2** The term “Basic Ordering Agreement” (BOA) refers to the acquisition instruments negotiated between suppliers of products / services and the NCI Agency, on behalf of NATO.
- 2.1.3** The term “Bidder” as used herein refers to a firm, consortium, or joint venture which submits an offer in response to this solicitation.
- 2.1.4** The term “Compliance” as used herein means strict conformity to the requirements and standards specified in this Invitation for Bid.
- 2.1.5** The term “Contractor” refers to a firm of a Participating Country which has signed a Contract under which it will perform a service, manufacture a product, or carry out works for NATO.
- 2.1.6** The term “Participating Country” as used herein means one of the 30 NATO Member Nations, namely, (in alphabetical order):
- ALBANIA, BELGIUM, BULGARIA, CANADA, CROATIA, CZECH REPUBLIC, DENMARK, ESTONIA, FRANCE, GERMANY, GREECE, HUNGARY, ICELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, MONTENEGRO, NETHERLANDS, NORTH MACEDONIA, NORWAY, POLAND, PORTUGAL, ROMANIA, SLOVAKIA, SLOVENIA, SPAIN, TURKEY, UNITED KINGDOM, UNITED STATES OF AMERICA.
- 2.1.7** The term “Purchaser” refers to the authority issuing the RFQ and/or awarding the Contract (the NATO Communications and Information Agency, NCIA).
- 2.1.8** The term “Sub-Assembly” as used herein refers to a portion of an assembly consisting of two or more parts that can be provisioned and replaced as an entity. The definition purposely excludes components and/or parts as defined in ACodP-1.

## 2.2 ELIGIBILITY

- 2.2.1** Only firms which hold an active BOA stipulated with the NCI Agency, or firms which have been nominated by their respective National Responsible Authority, are eligible to take part in this RFQ. In addition, all Contractors, sub-Contractors and manufacturers, at any tier, must be from Participating Countries.
- 2.2.2** No materials or items of equipment down to and including identifiable sub-assemblies shall be manufactured or assembled by a firm other than from and within a Participating Country.
- 2.2.3** The intellectual property rights to all design documentation and related system operating software shall reside in Participating Countries, and no license fee, or royalty charges shall be paid by the Contractor to firms, individuals or governments other than within the Participating Countries.
- 2.2.4** Bidders are at liberty to constitute themselves into any form of contractual arrangements or legal entity they desire, bearing in mind that in consortium-type arrangements a single judicial personality shall be established to represent that legal entity. A legal entity, such as an individual, Partnership or Corporation, herein referred to as the "Prime Contractor", shall represent all members of the consortium with the NCI Agency and/or NATO. The "Prime Contractor" shall be vested with full power and authority to act on behalf of all members of the consortium, within the prescribed powers stated in an irrevocable Power of Attorney issued to the "Prime Contractor" by all members associated with the consortium. Evidence of authority to act on behalf of the consortium by the "Prime Contractor" shall be enclosed and sent with the Bid.

## 2.3 BID DELIVERY AND BID CLOSING

- 2.3.1** All Bids shall be in the possession of the Purchaser at the e-mail address provided in paragraph 2.5 **no later than 1200 hours / 12:00 pm (Brussels Time) on 23 October 2020** at which time and date bidding shall be closed.
- 2.3.2** Bids shall be delivered to the following e-mail address:  
[Natalia.Wojciak@ncia.nato.int](mailto:Natalia.Wojciak@ncia.nato.int)
- 2.3.3** Late Bids
- 2.3.3.1** Bids which are delivered to the Purchaser after the specified time and date set forth above for Bid Closing are "Late Bids" and shall not be considered for award. Such Bids will remain unopened unless the Purchaser can determine that the Bid in question meets the criteria for consideration as specified below.
- 2.3.3.2** Consideration of Late Bid – The Purchaser considers that it is the responsibility of the Bidder to ensure that the Bid submission arrives by the specified Bid Closing time. A late Bid shall only be considered for award under the following circumstances:
- 2.3.3.2.1** A Contract has not already been awarded pursuant to the Request for Quote, and;

**2.3.3.2.2** The Bid was sent to the email address specified in the RFQ and the delay was solely the fault of the Purchaser.

**2.3.4** It is the responsibility of the Bidder to ensure that the Bid submission is duly completed by the specified Bid Closing time and date. If a Bid received at the NCI Agency's facility by electronic data interchange is unreadable to the degree that conformance to the essential requirements of the solicitation cannot be ascertained, the Purchaser will immediately notify the Bidder that the Bid will be rejected unless the Bidder provides clear and convincing evidence:

**2.3.4.1** Of the content of the Bid as originally submitted; and,

**2.3.4.2** That the unreadable condition of the Bid was caused by Purchaser software or hardware error, malfunction, or other Purchaser mishandling.

## **2.4 REQUESTS FOR EXTENSION OF BID CLOSING DATE**

**2.4.1** The Purchaser does not accept, except in exceptional cases, Bidder requests to extend the Bid Closing Date. In any event, all requests for an extension of the Bid Closing Date must be submitted in writing by e-mail to the Point of Contact specified in paragraph 2.5 below and shall arrive not later than 7 (seven) days before the Closing Date of the Bid. The Purchaser is under no obligation to consider or answer requests submitted after this time. **Extensions to the Bid Closing Date are at the sole discretion of the Purchaser.**

## **2.5 PURCHASER POINT OF CONTACT**

**2.5.1** The Purchaser Points of Contact (POC) for all information concerning this RFQ is: Ms. Natalia Wojciak, [Natalia.Wojciak@ncia.nato.int](mailto:Natalia.Wojciak@ncia.nato.int)

## **2.6 REQUEST FOR RFQ CLARIFICATIONS**

**2.6.1** Bidders, during the solicitation period, are encouraged to query and seek clarification of any matters of a contractual, administrative and technical nature pertaining to this RFQ.

**2.6.2** All questions and requests for clarification must be submitted in writing using the appropriate Clarification Requests Form in Annex D. All questions and requests must reference the Section(s) in the RFQ subject for clarifications. The questions and/or requests shall be submitted to the point of contact specified in paragraph 2.5 above and shall arrive not later than seven (7) calendar days prior to the stated "Bid Closing Date". The Purchaser is under no obligation to answer questions submitted after this time.

**2.6.3** Bidders are advised that subsequent questions and/or requests for clarification included in a Bid shall neither be answered nor considered for evaluation and may be grounds for a determination of non-compliance.

**2.6.4** Except as provided above, all questions will be answered by the Purchaser and the questions and answers (deprived of any means of identification of the questioner) will be issued in writing to all prospective bidders in accordance with the provisions of paragraph 2.8 below.



**2.6.5** The published answers issued by the Purchaser shall be regarded as the authoritative interpretation of the RFQ, and may lead to a formal amendment to the RFQ. Such amendment may also contain changes to the language, terms, conditions and/or specifications of the RFQ. Amendments to the language of the RFQ included in the answers, and/or the formal RFQ amendment, shall be incorporated by the Bidder in its offer.

## **2.7 REQUESTS FOR WAIVERS AND DEVIATIONS**

**2.7.1** Bidders are informed that requests for alteration to, waivers of, or deviations from the Schedules, the Special Contract Provisions, the General Contract Provisions, the Technical Specifications and any other Terms and Conditions of the Prospective Contract will not be considered after the Request for Clarification process.

**2.7.2** Requests for alterations to the other requirements, terms or conditions of the Invitation for Bid or the Prospective Contract may only be considered as part of the clarification process set forth in paragraph 2.6 above. Requests for alterations to the specifications, terms and conditions of the Contract which are included in a Bid as submitted may be regarded by the Purchaser as a qualification or condition of the Bid and may be grounds for a determination of non-compliance.

## **2.8 AMENDMENT OF THE INVITATION FOR BID**

**2.8.1** The Purchaser may revise, amend or correct the terms, conditions and/or specifications and provisions of the RFQ documents at any time prior to the date set for the Bid Closing. Any and all modifications will be transmitted to all prospective bidders by an official amendment designated as such and signed by the Contracting Authority. Such amendment shall be recorded in the Acknowledgement of Receipt certificate (Annex C-6) which the bidder shall complete and enclose as part of its Bid. This process may be part of the clarification procedures set forth in paragraph 2.6 above or may be an independent action on the part of the Purchaser.

**2.8.2** The Purchaser will consider the potential impact of amendments on the ability of prospective Bidders to prepare a proper Bid within the allotted time. The Purchaser may extend the "Bid Closing Date" at its discretion and such extension will be set forth in the amendment document.

**2.8.3** In no case, however, will the closing date for receipt of Bids be less than seven (7) days from the date of issuance of any amendment to the RFQ.

## **2.9 MODIFICATION AND WITHDRAWAL OF BIDS**

**2.9.1** Bids, once submitted, may be modified by Bidders, but only to the extent that the modifications are in writing, conform to the requirements of the RFQ, and are received by the Purchaser prior to the exact time and date established for Bid Closing. Such modifications shall be considered as an integral part of the submitted Bid.

**2.9.2** Modifications to Bids which arrive after the Bid Closing Date will be considered as "Late Modifications" and will be processed in accordance with the procedure

set forth above concerning "Late Bids", except that unlike a "Late Bid", the Purchaser will retain the modification until a selection is made.

**2.9.3** A modification to a Bid which is determined to be late will not be considered in the evaluation and selection process. If the Bidder submitting the modification is determined to be the successful Bidder on the basis of the unmodified Bid, the modification may then be opened. If the modification makes the terms of the Bid more favourable to the Purchaser, the modified Bid may be used as the basis of Contract award.

**2.9.4** The Purchaser, however, reserves the right to award a Contract to the apparent successful Bidder on the basis of the Bid submitted and disregard the Late Modification.

**2.9.5** A Bidder may withdraw its Bid at any time prior to Bid Opening without penalty. In order to do so, an authorised agent or employee of the Bidder must provide an original statement of the firm's decision to withdraw the Bid.

## **2.10 BID VALIDITY**

**2.10.1** Bidders shall be bound by the term of their Bids for a period of twelve (12) months starting from the Bid Closing Date specified at paragraph 2.3.1 above.

**2.10.2** In order to comply with this requirement, the Bidder shall complete the Certificate of Bid Validity set forth in Annex C-3. Bids offering less than the period of time referred to above for acceptance by the Purchaser may be determined to be non-compliant.

**2.10.3** The Purchaser will endeavour to complete the evaluation and make an award within the period referred to above. However, should that period of time prove insufficient to render an award, the Purchaser reserves the right to request an extension of the period of validity of all Bids which remain under consideration for award.

**2.10.4** Upon notification by the Purchaser of such a request for a time extension, the Bidders shall have the right to:

**2.10.4.1** accept this extension of time in which case Bidders shall be bound by the terms of their offer for the extended period of time and the Certificate of Bid Validity extended accordingly; or

**2.10.4.2** refuse this extension of time and withdraw the Bid without penalty.

**2.10.5** Bidders shall not have the right to modify their Bids due to a Purchaser request for extension of the Bid validity unless expressly stated in such request.

## **2.11 BID GUARANTEE**

**2.11.1** In light of the urgency of the requirement and the administrative time necessary for the Bidders' to obtain a Bid Guarantee, for the purpose of submission of bids in response to this RFQ, the Purchaser voids any requirement for a Bid Guarantee.

## 2.12 CANCELLATION OF REQUEST FOR QUOTES

2.12.1 The Purchaser may cancel, suspend or withdraw for re-issue at a later date this RFQ at any time prior to Contract award. No legal liability on the part of the Purchaser for payment of any sort shall arise and in no event will any Bidder have cause for action against the Purchaser for the recovery of costs incurred in connection with preparation and submission of a Bid in response to this RFQ.

## 2.13 ELECTRONIC TRANSMISSION OF INFORMATION AND DATA

2.13.1 The Purchaser will endeavour to communicate answers to requests for clarification and amendments to this RFQ to the prospective bidders by the fastest means possible, through the use of e-mail. All bidders are consequently strongly encouraged to provide accurate email addressing information and notify the Purchaser at the earliest practicable date should any changes occur.

# SECTION III - BID PREPARATION INSTRUCTIONS

## 3.1. GENERAL

3.1.1. Bids shall be prepared in accordance with the instructions set forth herein. Failure to comply with these instructions may result in the Bid being declared non-compliant.

3.1.2. Bidders shall prepare a complete Bid which comprehensively addresses all requirements stated herein. The Bid shall demonstrate the Bidder's understanding of the RFQ and its ability to provide all the deliverables and services listed in the Schedule of Supplies and Services.

3.1.3. Partial Bids and/or Bids containing conditional statements will be declared non-compliant.

3.1.4. Bidders shall not restate the RFQ requirements in confirmatory terms only. Bids shall provide the level of detail necessary for the Purchaser to make an objective assessment of what is being offered and whether such offer meets the requirements of the Contract. Bidders are admonished that Bids that fail to provide such a level of detail or that address salient aspects of the RFQ in a cursory manner **may be declared non-compliant** without recourse to further clarification.

## 3.2. BID MARKING

3.2.1. The proposal shall be sent in one e-mail to the Bid Delivery email address specified in section 2.5.

3.2.2. This e-mail shall have the following subject line:

3.2.2.1. 115268-AFAP Official Bid for Company Name

## 3.3. BID CONTENT

3.3.1. The complete bid submission shall consist of three (3) parts as follows:

**3.3.1.1. Part 1 – Bid Administration:** The Administrative volume shall contain one (1) scanned PDF copy of signed originals of the prescribed Certifications. All of the required contents are detailed in Section 3.4.

**3.3.1.2. Part 2 - Price Quotation:** The Price Quotation volume shall contain one (1) electronic copy in Microsoft Excel (readable and searchable) of the completed Bidding Sheets and one (1) PDF copy of the completed Bidding Sheets. All of the required contents are detailed in Section 3.5.

**3.3.1.3. Part 3 - Technical Proposal:** The Technical volume shall contain the Technical Proposal in PDF. All documents and drawings contained in the Technical Proposal shall be readable and searchable. All of the required contents are detailed in Section 3.6.

**3.3.2.** The email shall therefore include three files, one for each part, with the following names:

**3.3.2.1.** Part I: 115268-AFAP Official Bid for Company Name, Part I – Bid Admin

**3.3.2.2.** Part II: 115268-AFAP Official Bid for Company Name, Part II – Price

**3.3.2.3.** Part III: 115268-AFAP Official Bid for Company Name, Part III – Technical

**3.3.3.** “Company Name” – In the subject line of the email, and in the names of the individual PDF and Excel files, the name of the bidder shall be abbreviated to no more than 10 characters. For example, if a company’s name is “Generic Computer and Technology Research”, the email and file name could be:

- 115268-AFAP Official Bid for Generic, Part I – Bid Admin

Or

- 115268-AFAP Official Bid for GCTR, Part I – Bid Admin

**3.3.4.** The email submitted shall be less than 20MB.

#### **3.4. PREPARATION OF PART 1 – BID ADMINISTRATION**

**3.4.1.** The Bidder shall submit a PDF copy of the Certificates in Annex C to these Bidding Instructions, signed in the original, in particular:

- (a) C-1 Certificate of Legal Name of Bidder
- (b) C-2 Certificate of Independent Determination
- (c) C-3 Certificate of Bid Validity
- (d) C-4 Certificate of Understanding
- (e) C-5 Certificate of Exclusion of Taxes, Duties and Charges

- (f) C-6 Acknowledgement of Receipt of RFQ Amendments (if applicable)
- (g) C-7 Disclosure of Requirements for NCI Agency Execution of Supplemental Agreements
- (h) C-8 Certification of NATO Member Country of Origin of Delivered Equipment, Services, Materials and Intellectual Property Rights
- (i) C-9 Comprehension and Acceptance of Contract Special Provisions and Contract General Provisions
- (j) C-10 List of Prospective Sub-Contractors / Consortium members
- (k) C-11 Certificate of AQAP 2110 or ISO-9001:2008 Compliance. The Bidder shall attach a copy of the company's AQAP 2110 or ISO 9001 Certification.
- (l) C-12 Disclosure of Involvement of Former NCI Agency Employment

**3.4.2.** Concerning Certificate C-10, the Contractor shall identify by name, project role, and country of origin, all sub-contractors, if any. A list of consortium members shall also be completed and included. If there are no sub-contractors/consortium members involved, the Bidder shall state this separately.

**3.4.3.** Concerning Certificate C-7, Disclosure of Requirements for NCI Agency Execution of Supplemental Agreements, Bidders shall note especially the following:

**3.4.3.1.** If supplemental agreements, such as End-User Certificates or Technical Assistance Agreements, are required by national regulations, these must be submitted with the Bidders Bid. Supplemental agreements submitted after the Bid Closing Date shall not be considered.

**3.4.3.2.** The terms of supplemental agreements, if necessary, are the Bidders / Contractors responsibility and shall be totally consistent with the terms of the (Prospective) Contract, and shall not duplicate, negate, or further interpret any provisions of this Contract. The terms of the (Prospective) Contract shall take precedence over the Supplemental Agreement.

**3.4.3.3.** A problem with the supplemental agreement in any of the areas mentioned previously in this provision may result in a determination that the Bid is not compliant with the terms of the RFQ, and in rejection of the Bid, or termination for default of the Contract if the supplemental agreement is submitted after Contract award

### **3.5. PREPARATION OF PART 2 - PRICE QUOTATION**

**3.5.1.** Bidders shall prepare their Price Quotation by completing the yellow highlighted sections of the Bidding Sheets.

- 3.5.2.** The structure of the Bidding Sheets shall not be changed nor should any quantity or item description in the Bidding Sheets. The currency of each line item and sub-item shall be shown.
- 3.5.3.** The prices provided shall be intended as the comprehensive total price offered for the fulfilment of all requirements as expressed in the RFQ documentation including but not limited to those expressed in the SOW.
- 3.5.4.** Bidders shall furnish Firm Fixed Prices for all required items in accordance with the format set forth in the Instructions for preparation of the Bidding Sheets.
- 3.5.5.** Offered prices shall not be "conditional" in nature. Any comments supplied in the Bidding Sheets which are conditional in nature, relative to the offered prices, may result in a determination that the bid is non-compliant. Partial Bids will not be considered.
- 3.5.6.** Bidders are responsible for the accuracy of their Price Quotations. Price Quotations that have apparent computational errors may have such errors resolved in the Purchaser's favour or, in the case of gross omissions, inconsistencies or errors, may be determined to be non-compliant.
- 3.5.7.** Bidders shall quote in their own national currency or in EUR, the host nation currency. Bidders may also submit Bids in multiple currencies including other NATO member states' currencies under the following conditions:
- (a) the currency is of a "Participating Country" in the project, and
  - (b) the Bidder can demonstrate, either through sub-contract arrangements or in its proposed work methodology, that it will have equivalent expenses in that currency. All major sub-contracts and their approximate anticipated value should be listed on a separate sheet and included with the Price Quotation.
- 3.5.8.** The Purchaser, by virtue of his status under the terms of Article IX and X of the Ottawa Agreement, is exempt from all direct taxes (incl. VAT) and all customs duties on merchandise imported or exported. The Contractor, therefore, certifies that the prices stipulated in this Contract do not include amounts to cover such direct taxes or customs duties
- 3.5.9.** The Contractor shall be responsible for ensuring that his respective Sub-contractors are aware that the Purchaser is exempt from taxes and customs duties. The Contractor (and his respective Sub-contractors) shall be responsible for complying with all applicable national and local legal and administrative procedures to ensure that authorities do not attempt to assess taxes and customs duties on goods and property imported or exported through NATO member nation frontiers under this Contract nor assess direct taxation (VAT) on goods sold to the NCI Agency under this Contract.

Bidders are informed that the Purchaser, by virtue of his status is exempt from VAT Article 42 §3 & 3° of VAT Code for Belgium, or Article 151, §1 b of the Council Directive 2006/112 EC dd. 28 November 2006 on intra-community purchases and/or services. Bidders shall therefore exclude from their Price

Quotation all taxes, duties and customs charges from which the Purchaser is exempted by international agreement. Bidders are reminded of the requirement to complete the certification to this effect in Annex C-5.

- 3.5.10.** Unless otherwise specified in the instructions for the preparation of bidding sheets, all prices quoted in the proposal shall be DDP (Delivered Duty Paid) to specified destination, in accordance with the International Chamber of Commerce INCOTERMS 2000 and shall also cover all packaging, packing, preservation, insurance and transportation charges. Prices quoted shall include all costs for items supplied and delivered to final destination.
- 3.5.11.** The Bidder's attention is directed to the fact that Price Quotation shall contain no document and/or information other than the priced copies of the Bidding Sheets. Any other document of a contractual or technical nature will not be considered for evaluation and may be cause for a determination of non-compliance by the Purchaser.
- 3.5.12.** When completing the Bidding Sheets, a price for each specified element needs to be supplied on each sub-CLIN. Prices should not be grouped. The prices and quantities entered on the document shall reflect the total items required to meet the contractual requirements. The total price shall be indicated in the appropriate columns and in the currency quoted. If the price of a line item is expressed in different currencies, these shall be identified, and there shall be as many totals on that line item as there are currencies. In preparing the Price Quotation, Bidders shall ensure that the prices of the Sub-items total the price of the major item of which they constitute a part. The accuracy of the inputs of the Bidding Sheets is the responsibility of the Bidder. The Purchaser in its favour may resolve ambiguous computation of prices.
- 3.5.13.** The Contractor shall be liable for all other taxes, assessments, fees, licences, administrative charges or other Government assessments or charges which are applicable to the performance of this Contract. It is the Contractor's responsibility to inform himself of his liability in each country where such liability may arise.
- 3.5.14.** The Purchaser reserves the right to request additional price details, from the apparent winner, during the pre-contract award phase.

### **3.6. TECHNICAL PROPOSAL**

**3.6.1.** Bidders shall demonstrate a detailed understanding of the objectives as well as of operational and technical requirements as defined in the RFQ. Bidders shall prepare and submit a Technical Proposal that shall present their proposal for each of the following areas:

- a. Table of Contents
- b. Executive Summary
- c. Section 1 - Project Manager and Technical Lead
- d. Section 2 - Preliminary Project Implementation Plan (PIP)
  - i. PIP Section 1 Project Management (PM) and Control

- ii. PIP Section 2 System Engineering and Design
- iii. PIP Section 3 Quality Assurance (QA)
- iv. PIP Section 4 Logistics
- v. PIP Section 5 Test and Final Acceptance
- vi. PIP Section 6 Risk Management

**3.6.2.** Bidders shall include only material relating to the Table of Contents, Executive Summary and the Sections 1 through 2 above in the Technical Proposal. Additional materials such as brochures, sales literature, product endorsements and unrelated technical or descriptive narratives shall not be included in the Technical Proposal. These materials may be included separately but must not be labelled as the Technical Proposal.

**3.6.3.** Table of Contents: Bidders shall demonstrate a detailed understanding of the technical requirements. Bidders shall compile a detailed Table of Contents that lists not only the Section Headings but also the major sub-sections, and topic headings required set forth in these Instructions or implicit in the organisation of the Technical Proposal.

**3.6.4.** Executive Summary (1-page limit): Bidders shall provide an overview of the salient features of their technical proposal in the form of an executive summary.

- a. This summary shall provide a general description of the major points contained in each of the required sections of the Technical Proposal and shall demonstrate the Bidder's comprehension of the RFQ requirements, their constraints, implementation environment and the problems and risks of project implementation.
- b. The Bidder shall discuss not only how the proposal meets the requirements but also how the Bidder intends to overcome the problems and mitigate the risks.

**3.6.5.** Section 1: Project Manager and Technical Lead

- a. The Bidder shall provide evidence that the Proposed Project Manager is an experienced senior individual with demonstrated capability in managing a project of this scope (i.e. installing pathways, or copper and fiber optic communications systems as appropriate).
- b. The Bidder shall also demonstrate that the Technical Lead is an experienced IT specialist who has experience with installing pathways, or copper and fiber optic communications systems as appropriate.
- c. The Bidder shall provide resumes and backgrounds for the Proposed Project Manager and Technical Lead that will be



involved in this specific project including those responsible for field supervision, quality assurance, and safety. Resumes shall include professional histories, references, training, licenses, and any certifications held. Any subsequent changes from these personnel shall only be allowed once the changes are agreed upon between contractor and Purchaser. Each resumes shall be limited to five pages.

**3.6.6. Section 2: Preliminary Project Implementation Plan (PIP)** The Preliminary PIP shall provide detailed descriptions of how the proposed move implementation will meet each of the specific requirements of the RFQ.

- a. PIP Section 1: Project Management and Control Plan (PMCP) (5-page limit):**
  - i. The Bidder shall develop a preliminary Project Management and Control Plan (PMCP) in accordance with the Statement of Work of the Prospective Contract. This plan shall identify the significant tasks required to be accomplished and the items to be delivered in the execution of the Contract.
  - ii. The Contractor shall also develop a preliminary Project Master Schedule (PMS) in accordance with the Statement of Work of the Prospective Contract that shall contain all Contract events and milestones. The PMS shall be limited to five pages.
  - iii. The Bidder shall demonstrate the realism of approach to accomplish the work within the time schedule defined in the RFQ.
  - iv. The Bidder shall not alter or amend the dates for Milestones as stated in the Bidding Sheets.
  - v. The Bidder shall demonstrate that they have taken into account the constraints of the implementation environment and reflect this understanding in his draft preliminary PMCP.
- b. PIP Section 2: System Engineering and Design (10-page limit)**
  - i. The Bidder shall provide information as to convincingly demonstrate that it will meet the safety and security requirements, as well as functional and technical requirements as set forth in the SOW and its Annexes and the terms and conditions of the Prospective Contract.
  - ii. The Bidder shall provide detailed descriptions of how he shall meet each of the specific performance requirements.
  - iii. The Bidder shall take into account any constraints of the

site(s) in its technical proposal.

- iv. The Bidder shall furnish additional drawings, diagrams and specifications, as required.
  - v. The Bidder shall demonstrate and confirm that any hardware to be procured in accordance with this RFQ meets the hardware specifications as defined in the Prospective Contract.
  - vi. The document shall be limited to ten pages.
- c. PIP Section 3: Quality Assurance (QA) (10-page limit)
- i. The Bidder shall provide information sufficient to demonstrate that the Quality Assurance and Quality Control (QA/QC) Programme meets the requirements of the Prospective Contract. The Bidder shall provide certification confirming that the Quality Programme meets the equivalent national and/or international standards.
  - ii. The proposed Quality Assurance Plan shall show how procedures are developed, implemented and maintained to adequately control the integration, installation, inspection, testing, and customer support of all services and all products (both management products and specialist products), in accordance with the requirements of this Contract.
  - iii. The proposed QA Plan shall describe the quality criteria that will be applied to each of the deliverables under this contract including the documentation.
- d. PIP Section 4: Logistics (5-page limit)
- i. The Bidder shall provide details of how it will organise and complete the tasks as required in Section 4 of the SOW.
- e. PIP Section 5: Test and Evaluation (10-page limit)
- i. The Bidder shall describe his approach to the development of test and evaluation documentation.
  - ii. The Bidder shall identify his proposed test organisation and provide a preliminary Test and Evaluation plan by WP for the allocation of personnel and the timeline for the Test activities set forth as requirements in the Prospective Contract.
  - iii. If there are elements of the System that are proposed to be submitted on the basis of a Certificate of Conformity (CoC), based on prior test and qualification, the Bidder shall provide

a summary of the particulars, and especially the dates of the prior tests and for whom the testing was executed.

- iv. The Bidder shall describe how the proposed CoC or request for exemption of testing based on prior qualification will be processed from the QA and CM aspects.
- f. PIP Section 6: Risk Management (5-page limit)
  - i. In order to demonstrate overall comprehension of the requirements set forth in the Prospective Contract, the Bidder shall provide a description of its Risk Assessment and Management methodology defining its strategy for risk management to meet the requirements of the Prospective Contract.

## **SECTION IV - BID EVALUATION**

### **4.1. GENERAL**

- 4.1.1. The evaluation of Bids will be made by the Purchaser solely on the basis of the requirements in this RFQ.
- 4.1.2. The evaluation of Bids and the determination as to the compliance or technical adequacy of the supplies and services offered will be based only on that information furnished by the Bidder and contained in its Bid. The Purchaser shall not be responsible for locating or securing any information which is not included in the Bid.
- 4.1.3. To ensure that sufficient information is available, the Bidder shall furnish with its Bid all information appropriate to provide a complete description of the work which will be performed and/or the supplies to be delivered. The information provided shall be to a level of detail necessary for the Purchaser to determine exactly what the Bidder proposes to furnish and whether the offer meets the technical, administrative and contractual requirements of this RFQ. Significant omissions and/or cursory submissions may result in a determination of non-compliance without recourse to further clarification.
- 4.1.4. During the evaluation, the Purchaser may request clarification of the Bid from the Bidder, and the Bidder shall provide sufficient detailed information in connection with such requests as to permit the Purchaser to make a final determination based upon the facts. The purpose of such clarifications will be to resolve ambiguities in the Bid and to permit the Bidder to state its intentions regarding certain statements contained therein. The Bidder is not permitted any cardinal alteration of the Bid regarding technical matters and shall not make any change to its price quotation at any time.
- 4.1.5. The Bidder's prompt response to the Purchaser's RFQ clarification requests is important and therefore failure to provide the requested clarifications within the time-limits set forth in the specific Clarification Requests may cause the Bid to be deemed non-compliant.

- 4.1.6.** The evaluation will be conducted in accordance with the Use of Basic Ordering Agreements (BOAs) by the NATO Communications and Information Agency (NCI Agency) set forth in the NATO document AC/4-D(2019)0004 (INV).
- 4.1.7.** The administrative compliance of the Bids will be evaluated first. Bids that are declared administratively non-compliant may be rejected without further evaluation. Following evaluation for administrative compliance, evaluation will be carried out in the following area: Part 2 - Price.
- 4.1.8.** All administrative compliant Bids will be reviewed for price compliancy. The Contract resulting from this RFQ will be awarded to the bidder whose offer, as evaluated by the Purchaser, is the lowest priced Bid and in compliance with the requirements of this RFQ.

## **4.2. ADMINISTRATIVE CRITERIA**

- 4.2.1.** Prior to commencement of the Price and Technical evaluation, Bids will be reviewed for compliance with the Bid Submission Requirements of this RFQ. These are as follows:
- (a) The Bid was received by email by the Bid Closing Date and Time,
  - (b) The Bid was marked properly,
  - (c) The Administrative Envelope contains a PDF copy of all the prescribed Certificates in Annex C to these Bidding Instructions, signed in the original.
- 4.2.2.** A Bid that fails to conform to the above requirements may be declared non-compliant and may not be evaluated further by the Purchaser.
- 4.2.3.** If it is discovered, during either the Technical or Price evaluation, that the Bidder has taken exception to the Terms and Conditions of the Prospective Contract, or has qualified and/or otherwise conditioned its offer on a modification or alteration of the Terms and Conditions, the Bidder may be determined to have submitted a non-compliant Bid.

## **4.3. PRICE CRITERIA**

- 4.3.1.** The Bidder's Price Quotation will be assessed for compliance against the following standards:
- 4.3.1.1.** The Price Quotation meets the requirements for preparation and submission of the Price Quotation set forth in the Bid Preparation Section and the Instructions for Contractor's Bidding Sheets, in particular:
    - a. Compliance with the requirements for preparation and submission of the Price Quotation set forth in the Bid Preparation Section (Book I, Section III) and Instructions for Contractor's Bidding Sheets (Annex B hereto).
    - b. The Bidder has furnished Firm Fixed Prices for all items listed.
    - c. All pricing data, i.e., quantities, unit prices, has been provided as reflected in the Bidding Sheets.

- d. Bid prices include all costs for items supplied, delivered, and supported.
- e. All prices have been accurately entered into appropriate columns, and accurately totalled.
- f. The Bidder has provided accurate unit price (where required) and total price for each line item.
- g. The Bidder has provided accurate unit price and total price of each of the sub-items it added (if any).
- h. The grand total is accurate.
- i. The currency of all line items has been clearly indicated.
- j. The Bidder has quoted in its own national currency or in the Host Nation currency, Euros. Where multiple currencies including other NATO member states' currencies are quoted, the conditions of Section III, are met.
- k. The Bidder has indicated that in accordance with the treaties governing the terms of business with NATO, it excluded from its prices all taxes, duties and customs charges from which the Purchaser has been exempted.
- l. Price quotes for each individual item(s), and totalled prices are accurate and realistic (based on historic data, and/or market and competitive trends in the specified industrial sector(s)).

**4.3.1.2.** Detailed pricing information has been provided and is adequate, accurate, traceable, and complete.

**4.3.1.3.** The Price Quotation meets requirements for price realism as described below in paragraph 4.3.3.

**4.3.1.4.** A Bid which fails to meet the compliance standards defined in this section may be declared non-compliant and may not be evaluated further by the Purchaser.

#### **4.3.2. Basis of Price Comparison**

**4.3.2.1.** The Purchaser will convert all prices quoted into EURO for purposes of comparison and computation of price scores. The exchange rate to be utilised by the Purchaser will be the average of the official buying and selling rates of the European Central Bank at close of business on the last working day preceding the Bid Closing Date.

**4.3.2.2.** The price comparison will be based on the offered Grand Total Firm Fixed Price which includes all CLINs (including Option CLINs) in the Bidding Sheets.

#### **4.3.3. Price Realism**

**4.3.3.1.** Otherwise successful Bidders that submit a price quotation so low that it is not a realistic reflection of the objective cost of performance of the associated technical proposal may be considered by the Purchaser to have submitted an unrealistic offer and that offer may be determined to be non-compliant.

**4.3.3.2.** Indicators of an unrealistically low Bid may be the following, amongst others:

- a. Labour Costs that, when amortised over the expected or proposed direct labour hours, indicate average labour rates far below those prevailing in the Bidders locality for the types of labour proposed.
- b. Direct Material costs that are considered to be too low for the amounts and types of material proposed, based on prevailing market prices for such material.
- c. Numerous Line Item prices for supplies and services that are provided at no cost or at nominal prices.

**4.3.3.3.** If the Purchaser has reason to suspect that a Bidder has artificially debased its prices in order to secure contract award, the Purchaser will request clarification of the Bid in this regard and the Bidder shall provide explanation on one of the following bases:

- a. An error was made in the preparation of the Price Quotation. In such a case, the Bidder must document the nature of the error and show background documentation concerning the preparation of the Price Quotation that makes a convincing case that a mistake was made by the Bidder. In such a case, the Bidder shall petition the Purchaser to both remain in the competition and accept the Contract at the offered price, or to withdraw from the competition.
- b. The Bidder has a competitive advantage due to prior experience or industrial/technological processes that demonstrably reduce the costs of Bidder performance and therefore the price offered is realistic. Such an argument must support the technical proposal offered and convincingly and objectively describe the competitive advantage and the net savings achieved by this advantage over standard market practices and technology.
- c. The Bidder recognises that the submitted Price Quotation is unrealistically low compared to its cost of performance and, for business reasons, the Bidder is willing to absorb such a loss. Such a statement can only be made by the head of the business unit submitting the Bid and will normally be made at the level of Chief Operating Officer or Chief Executive Officer. In such a case, the Bidder shall estimate the potential loss and show that the financial resources of the Bidder are adequate to withstand such reduction in revenue.

**4.3.3.4.** If a Bidder fails to submit a comprehensive and compelling response on one

of the bases above, the Purchaser may determine the Bid submitted as non-compliant. If the Bidder responds on the basis of a) above and requests to withdraw from the competition, the Purchaser may, depending on the nature and gravity of the mistake, allow the Bidder to withdraw.

**4.3.3.5.** If the Purchaser accepts the Bidder's explanation of mistake in paragraph 4.3.4.3(a) and allows the Bidder to accept the Contract at the offered price, or the Purchaser accepts the Bidder's explanation pursuant to paragraph 4.3.4.3(c) above, the Bidder shall agree that the supporting pricing data submitted with its Bid will be incorporated by reference in the resultant Contract. The Bidder shall agree as a condition of Contract signature, that the pricing data will be the basis of determining fair and reasonable pricing for all subsequent negotiations for modifications of or additions to the Contract and that no revisions of proposed prices will be made.

**4.3.3.6.** If the Bidder presents a convincing rationale pursuant to paragraph 4.3.4.3(b) above, no additional action will be warranted. The Purchaser, however, reserves its right to reject such an argument if the rationale is not compelling or capable of objective analysis. In such a case the Bid may be determined to be non-compliant.

#### **4.4. TECHNICAL CRITERIA**

**4.4.1.** Upon determination of the lowest-priced Bid as described above, the Bid shall be evaluated to confirm compliance with the requirements for preparation and submission of the Technical Proposal set forth in the Bid Preparation Section (Book I, Section III).

#### **4.5. CONTRACT AWARD**

**4.5.1.** The contract resulting from this RFQ will be awarded to the Bidder whose offer, as evaluated by the Purchaser, is the lowest priced bid in compliance with the requirements of this RFQ.

**4.5.2.** Bidders that are determined to have submitted non-compliant bids will be so notified and will have an opportunity to challenge such a determination. In such a case, the administrative proposal and the technical proposal of the Bidder who has submitted the apparent second lowest compliant priced bid will be evaluated. The Bidder who has offered the lowest compliant priced, technically compliant bid will then be offered the contract for award.

## **ANNEX A – BIDDING SHEETS**

Provided under separate MS Excel File:

*“03\_RFQ-CO-115268-AFAP\_Book I – Annex A Bidding Sheets.xls”*



## **ANNEX B - Instructions for the preparation of Bidding Sheets**

1. Bidders must complete and submit the Bidder Sheets with their Price per CLIN. The Contractor shall not exceed the Required Delivery Time.
2. The prices entered on the Bidder Sheets shall reflect the total items required to meet the contractual requirements.
3. The total price shall be indicated in the appropriate columns and in the currency quoted.
4. The total evaluated price shall be the price of the basic Contract.
5. If the price of a CLIN is expressed in different currencies, these shall be identified, and there shall be as many bidding sheets for that CLIN as there are currencies.
6. In preparing the Price Quotation, Bidders shall ensure that the prices of the Sub-items total the price of the major item of which they constitute a part. Pricing for lower level items shall add to the total for the Sub-CLINs, and the Sub-CLIN totals shall add to the CLIN total.
7. Prices shall not include any provision for taxes or duties for which the Purchaser is exempt.
8. Bidders shall not introduce any changes or deviations to Bidder Sheets as Published by the Purchaser, unless otherwise specified.

## **ANNEX C – CERTIFICATES**

**ANNEX C-1**

**CERTIFICATE OF LEGAL NAME OF BIDDER**

This Bid is prepared and submitted on behalf of the legal corporate entity specified below:

FULL NAME OF CORPORATION: \_\_\_\_\_

DIVISION (IF APPLICABLE): \_\_\_\_\_

SUB DIVISION (IF APPLICABLE): \_\_\_\_\_

OFFICIAL MAILING ADDRESS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

FAX NO.: \_\_\_\_\_

BOA NO.: \_\_\_\_\_

POINT OF CONTACT (POC) REGARDING THIS BID:

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

ALTERNATIVE POC:

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_

\_\_\_\_\_  
DATE

\_\_\_\_\_  
SIGNATURE OF AUTHORISED REPRESENTATIVE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
TITLE

**ANNEX C-2**

**CERTIFICATE OF INDEPENDENT DETERMINATION**

1. Each Bidder shall certify that in connection with this procurement:
  - a. This Bid has been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, with any other Bidder or with any competitor;
  - b. The contents of this Bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to award, directly or indirectly to any other Bidder or to any competitor, and
  - c. No attempt has been made, or will be made by the Bidder to induce any other person or firm to submit, or not to submit, a Bid for the purpose of restricting competition.
  
2. Each person signing this Bid shall also certify that:
  - a. He/she is the person in the Bidder's organisation responsible within that organisation for the decision as to the Bid and that he/she has not participated and will not participate in any action contrary to 1(a) through 1(c) above, or
  - b. (i) He/she is not the person in the Bidder's organisation responsible within that organisation for the Bid but that he/she has been authorised in writing to act as agent for the persons responsible for such a decision in certifying that such persons have not participated, and will not participate in any action contrary to 1(a) through 1(c) above, and as their agent does hereby so certify, and
    - (ii) He/she has not participated and will not participate in any action contrary to 1(a) through 1(c) above.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

NOTE: IF THE BIDDER DELETES OR MODIFIES SUBPARAGRAPH (1B) OF THIS ANNEX, THE BIDDER MUST FURNISH WITH ITS OFFER A SIGNED STATEMENT SETTING FORTH IN DETAIL THE CIRCUMSTANCES OF THE DISCLOSURE.

**ANNEX C-3**

**CERTIFICATE OF BID VALIDITY**

I, the undersigned, as an authorised representative of the firm submitting this Bid, do hereby certify that the pricing and all other aspects of our Bid will remain valid for a period of twelve (12) months from the Bid Closing Date of this Invitation for Bid.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

**ANNEX C-4**

**CERTIFICATE OF UNDERSTANDING**

I certify that

.....  
.....(*Company Name*) has read and fully understands the requirements of this Invitation for Bid (RFQ) and that the Bid recognises these requirements in total.

I also certify to the best of my expert knowledge that this Bid is within the "state of art" boundaries as they exist at the time of bidding for this project.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

**ANNEX C-5**

**CERTIFICATE OF EXCLUSION OF TAXES, DUTIES AND CHARGES**

I hereby certify that the prices offered in the price quotation of this Bid exclude all taxes, duties and customs charges from which the Purchaser has been exempted by international agreement.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

**ANNEX C-6**

**ACKNOWLEDGEMENT OF RECEIPT OF RFQ AMENDMENTS**

I confirm that the following Amendments to Invitation for Bid No RFQ-CO-115268-AFAP have been received and the Bid as submitted reflects the content of such Amendments:

<b>Amendment Number</b>	<b>Date of Issue by the Purchaser</b>	<b>Date of Receipt by the Bidder</b>

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company



**ANNEX C-7**

**DISCLOSURE OF REQUIREMENTS FOR NCI AGENCY EXECUTION OF SUPPLEMENTAL AGREEMENTS**

I, the undersigned, as an authorised representative of .....  
.....(*Company Name*), certify the following statement:

1. All supplemental agreements, defined as agreements, documents and/or permissions outside the body of the Contract but required by my Government, and the governments of my sub-Contractors, to be executed by the NCIA as a condition of my firm's performance of the Contract, have been identified, as part of the Bid.
2. These supplemental agreements are listed as follows:
3. Examples of the terms and conditions of these agreements are attached hereto. The anticipated restrictions to be imposed on NATO, if any, have been identified in our offer along with any potential conflicts with the terms, conditions and specifications of the Prospective Contract, see ..... (*complete, if any*). These anticipated restrictions and potential conflicts are based on our knowledge of and prior experience with such agreements and their implementing regulations. We do not certify that the language or the terms of these agreements will be exactly as we have anticipated.
4. The processing time for these agreements has been calculated into our delivery and performance plans and contingency plans made in the case that there is delay in processing on the part of the issuing government(s), see ..... (*complete, if any*).
5. We recognise that additional supplemental agreements, documents and permissions presented as a condition of Contract performance or MOU signature after our firm would be selected as the successful Bidder may be cause for the NCIA to determine the submitted Bid to be non-compliant with the requirements of the RFQ.
6. We accept that should the resultant supplemental agreements issued in final form by the government(s) result in an impossibility to perform the Contract in accordance with its schedule, terms or specifications, the Contract may be terminated by the Purchaser at no cost to either Party.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

**ANNEX C-8**

**CERTIFICATION OF NATO MEMBER COUNTRY ORIGIN OF DELIVERED EQUIPMENT, SERVICES, MATERIALS AND INTELLECTUAL PROPERTY RIGHTS**

The Bidder hereby certifies that, if awarded the Contract pursuant to this solicitation, it will perform the contract subject to the following conditions:

- (a) none of the work, including project design, labour and services shall be performed other than by firms from and within participating NATO member countries;
- (b) no material or items of equipment down to and including identifiable sub-assemblies shall be manufactured or assembled by a firm other than from and within a participating NATO member country (a sub-assembly is defined as a portion of an assembly consisting of two or more parts that can be provided and replaced as an entity)\*; and
- (c) the intellectual property rights to all design documentation and related system operating software shall reside in NATO member countries, and no license fees or royalty charges shall be paid by the Contractor to firms, individuals or governments other than within the NATO member countries.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

\*This definition purposely excludes components and/or parts (as defined in AcodP-1), which are not subject to this certification.

**ANNEX C-9**

**COMPREHENSION AND ACCEPTANCE OF CONTRACT SPECIAL PROVISIONS  
AND CONTRACT GENERAL PROVISIONS**

The Bidder hereby certifies that he has reviewed the Special Contract Provisions set forth in the Prospective Contract, Book II of this Request for Quotation and the Contract Provisions set forth in the Basic Ordering Agreement signed with the NCI Agency. The Bidder hereby provides his confirmation that he fully comprehends the rights, obligations and responsibilities of the Contractor as set forth in the Articles and Clauses of the Prospective Contract. The Bidder additionally certifies that the offer submitted by the Bidder is without prejudice, qualification or exception to any of the Terms and Conditions and he will accept and abide by the stated Special Contract Provisions if awarded the contract as a result of this Request for Quotation

I certify that

.....  
.....(Company Name) has read and fully understands the requirements of this Request for Quotation (RFQ) and that the Bid recognises these requirements in total.

The Bidder hereby certifies that he has reviewed the Contract Special Provisions and the NCI Agency Contract General Provisions set forth in the Prospective Contract, Book II, of this Invitation for Bid. The Bidder hereby provides his confirmation that he fully comprehends the rights, obligations and responsibilities of the Contractor as set forth in the Articles and Clauses of the Prospective Contract. The Bidder additionally certifies that the offer submitted by the Bidder is without prejudice, qualification or exception to any of the Terms and Conditions and he will accept and abide by the stated Contract Special Provisions and Contract General Provisions if awarded the Contract as a result of this Invitation for Bid.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Authorised Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company

**ANNEX C-10**

**LIST OF PROSPECTIVE SUB-CONTRACTORS/CONSORTIUM MEMBERS**

Name and Address of Sub-Contractor, incl. country of origin/registration	Primary Location of Work	Items/Services to be Provided	Estimated Value of Sub-Contract

If no sub-Contractors/consortium members are involved, state this here:

.....  
 .....  
 .....  
 .....

.....  
 Date

.....  
 Signature of Authorised Representative

.....  
 Printed Name and Title

.....  
 Company

**ANNEX C-11**

**CERTIFICATE OF AQAP 2110 OR ISO 9001:2008 COMPLIANCE**

I hereby certify that ..... (*Company Name*) is fully compliant with the AQAP 2110 or ISO 9001:2008 Quality Assurance Standards and Procedures and is currently so certified.

A copy of the quality certification is **attached herewith**.

.....  
Date

.....  
Signature of Authorised Representative

.....  
Printed Name and Title

.....  
Company

**ANNEX C-12**

**Disclosure of Involvement of Former NCI Agency Employment**

The Bidder hereby certifies that, in preparing its Bid, the Bidder did not have access to solicitation information prior to such information been authorized for release to Bidders (e.g., draft statement of work and requirement documentation).

The Bidder hereby acknowledges the post-employment measures applicable to former NCI Agency Personnel as per the NCI Agency Code of Conduct.

The Bidder hereby certifies that its personnel working as part of the company's team, at any tier, preparing the Bid:

- Have not held employment with NCI Agency within the last two years.
- Has obtained a signed statement from the former NCI Agency personnel below, who departed the NCI Agency within the last two years, that they were not previously involved in the project under competition (as defined in the extract of the NCI Agency Code of Conduct provided below):

Employee Name	Former NCIA Position	Current Company Position

The Bidder also hereby certifies that it does not employ and/or receive services from former NCI Agency Personnel at grades A5 and above or ranks OF-5 and above, who departed the NCI Agency within the last 12 months. This prohibitions covers negotiations, representational communications and/or advisory activities.

\_\_\_\_\_   
 Date

\_\_\_\_\_   
 Signature of Authorised Representative

\_\_\_\_\_   
 Printed Name

\_\_\_\_\_   
 Title

\_\_\_\_\_   
 Company

**Excerpt of NCI Agency AD. 05.00, Code of Conduct dated May 2017****Article 14 PROCUREMENT AND CONTRACTORS**

- 14.1 NCI Agency Personnel are required to maintain unquestionable integrity and impartiality in relation to procurements initiated by the NCI Agency.
- 14.2 NCI Agency Personnel shall not disclose any proprietary or contract related information regarding procurement directly or indirectly to any person other than a person authorized by the NCI Agency to receive such information. NCI Agency Personnel shall not disclose any documentation related to a procurement action to any third party without a need to know<sup>1</sup> (e.g., draft statement of work, statement of requirements) unless this is expressly provided under NATO Procurement Regulations or authorized in writing by the Director of Acquisition. During an on-going selection, NCI Agency Personnel shall not disclose any information on the selection procedure unless authorized by the Chairman of the award committee/board. The NCI Agency Personnel concerned will ensure that proper access controls are put in place to prevent disclosure of procurement information that has not yet been authorized for release for outside distribution, including draft statements of work and requirement documentations.
- 14.3 NCI Agency Personnel will not participate in a source selection if an offer has been provided by a friend, family member, a relative, or by a business concern owned, substantially owned, or controlled by him/her or by a friend, family member or a relative. NCI Agency Personnel appointed as part of an evaluation shall report such links to the Director of Acquisition immediately upon becoming aware of it.
- 14.4 Contractors and consultants shall not be allowed to participate in the drafting of the statement of work or in the source selection process unless they and their company/employer will be excluded from competition of the related contract. The same will apply to contractors and consultants involved in the definition and development of requirements.
- 14.5 Contractors will be given specific and coherent statements of work, providing precise explanation of how she/he is going to be employed. Tasks to be performed and minimum qualifications are to be well defined from the start. In addition, supervisors will ensure that contractors do not occupy managerial positions within the Agency.
- 14.6 NCI Agency Personnel shall not enter into authorized commitments in the name of NCI Agency or NATO unless specifically authorized. NCI Agency Personnel must abstain from making promises or commitment to award or amend a contract or otherwise create the appearance of a commitment from the NCI Agency unless properly authorized by the NCI Agency.
- 14.7 NCI Agency Personnel shall not endorse directly or indirectly products from industry. Therefore, NCI Agency Personnel shall not name or make statements endorsing or appearing to endorse products of specific companies.
- 14.8 Industry partners will need to abide with the post-employment measures under this Directive upon submission of their Bids / proposals to the NCI Agency. As part of the selection process, industry will be requested to agree with an ethical statement.

**15 INDUSTRY INITIATIVES**

- 15.1 Industry initiatives may include loans, displays, tests or evaluation of equipment and software, requesting NCI Agency speakers at industry gatherings and conferences, inviting speakers from industry to NCI Agency events, consultancy or studies of technical or organizational issues, etc. These initiatives are usually at no cost to the NCI Agency and take place at a pre-contractual phase or before the development of requirements and specifications. While there are benefits associated with the early involvement of industry in the definition of requirements and specifications, this also raises the potential for unfair treatment of potential competitors.
- 15.2 Industry initiatives which go beyond routine interaction in connection with on-going contracts must be reported to and coordinated by the NCI Agency Acquisition Directorate for approval. Industry initiatives shall be properly documented and governed by written agreements between the NCI Agency and the company concerned where relevant. Such agreements may

contain provisions describing the nature of the initiative, the non-disclosure of NCI Agency/NATO information, NCI Agency ownership of any resulting work, the NCI Agency's right to release such work product to future competitors for any follow-on competition or contract, the requirement that any studies must provide non-proprietary solutions and/or an acknowledgement that the participating companies will not receive any preferential treatment in the contracting process.

- 15.3 Any authorized industry initiatives must be conducted in such a way that it does not confer an unfair advantage to the industry concerned or create competitive hurdles for potential competitors.

## **16 POST EMPLOYMENT MEASURES**

- 16.1 The NCI Agency will not offer employment contracts to former NCI Agency Personnel who departed less than 2 years earlier, unless prior approval by the General Manager has been received.
- 16.2 Former NCI Agency Personnel will not be accepted as consultants or commercial counterpart for two (2) years after finalization of their employment at NCI Agency, unless the General Manager decides otherwise in the interest of the Agency and as long as NATO rules on double remuneration are observed. Such decision shall be recorded in writing. Commercial counterparts include owners or majority shareholders, key account managers, or staff member, agent or consultant of a company and/or subcontractors seeking business at any tier with the NCI Agency in relation to a procurement action in which the departing NCI Agency staff member was involved when he/she was under the employment of the NCI Agency. As per the Prince 2 Project methodology, a Project is defined as a "temporary organization that is created for the purpose of delivering one or more business products according to an agreed business case". For the purpose of this provision, involvement requires (i) drafting, review or coordination of internal procurement activities and documentation, such as statement of work and statement of requirement; and/or (ii) access to procurement information that has not yet been authorized for release for outside distribution, including draft statements of work and requirement documentations; and/or (iii) being appointed as a representative to the Project governance (e.g., Project Board) with access to procurement information as per (ii) above; and/or (iv) having provided strategic guidance to the project, with access to procurement information as per (ii) above.
- 16.3 In addition to Section 17.2 above, former NCI Agency Personnel at grades A5 and above or ranks OF-5 and above are prohibited during twelve months following the end of their employment with the NCI Agency to engaging in negotiations, representational communications and/or advisory activities with the NCI Agency on behalf of a private entity, unless this has been agreed in advance by the NCI Agency General Manager and notified to the ASB.
- 16.4 NCI Agency Personnel leaving the Agency shall not contact their former colleagues in view of obtaining any information or documentation about procurement activities not yet authorized' release. NCI Agency Personnel shall immediately report such contacts to the Director of Acquisition.
- 16.5 The ASB Chairman will be the approving authority upon recommendation by the Legal Adviser when the NCI Agency Personnel concerned by the above is the NCI Agency General Manager and will notify the ASB.
- 16.6 NCI Agency Personnel leaving the Agency shall sign a statement that they are aware of the post-employment measures set out in this Directive.
- 16.7 The post-employment measures set out in this Directive shall be reflected in the NCI Agency procurement documents, such as RFQs, and contract provisions.



## ANNEX D – CLARIFICATION REQUEST FORMS

INSERT COMPANY NAME HERE

INSERT SUBMISSION DATE HERE

ADMINISTRATIVE/CONTRACTUAL				
Serial Nr	RFQ Section Reference	BIDDERS QUESTION	NCI AGENCY ANSWER	Status*
A.1				
A.2				
A.3				

\* Status: Is Amendment to RFQ required as a direct result of the Clarification Request?

INSERT COMPANY NAME HERE

INSERT SUBMISSION DATE HERE

PRICE				
Serial Nr	RFQ Section Reference	BIDDERS QUESTION	NCI AGENCY ANSWER	Status*
P.1				
P.2				
P.3				

\* Status: Is Amendment to RFQ required as a direct result of the Clarification Request?

INSERT COMPANY NAME HERE

INSERT SUBMISSION DATE HERE

<b>TECHNICAL</b>				
<b>Serial Nr</b>	<b>RFQ Section Reference</b>	<b>BIDDERS QUESTION</b>	<b>NCI AGENCY ANSWER</b>	<b>Status*</b>
<b>T.1</b>				
<b>T.2</b>				
<b>T.3</b>				

\* Status: Is Amendment to RFQ required as a direct result of the Clarification Request?

## Bidding Sheets Instructions

### INTRODUCTION & IMPORTANT NOTES

**Bidders should note that NCIA has recently updated its bidding sheet template and are encouraged to read the instructions in full for this new version before completing the bidding sheets.**

All bidders are required to submit pricing details to demonstrate the Purchaser's Pricing Principles are being applied as part of their bids. All data submitted in these sheets shall be complete, verifiable and factual and include the required details. Any exclusions may render the bid as non compliant thus removing the bidder from the bidding process.

Bidders are **REQUIRED** to complete the following tabs:

- "Offer Summary",
- "CLIN Summary",
- "Labour",
- "Material",
- "Travel",
- "ODC",
- "Rates".

**Note that input cells in the "Offer Summary" and the "CLIN Summary" tabs are colour coded YELLOW.**

The instructions for the detailed tabs can be found below, as well as in the green boxes within each detailed tab. G&A, Overhead, material handling and other indirect rates do not need to be separately calculated in the detail sheets but must be included in the totals for each category (Labour/Material/Travel/ODC) as appropriate. A list of the direct and indirect rates applied in the bid must also be provided in the "Rates" tab, although they do not need to be linked to any and the detailed calculations. The list of these rates will be requested in pre-contract award from the winning bidder.

**Note: any information found within GREEN boxes throughout the entire document is provided as an instruction and/or example only.**

Any formulas provided in these bidding sheets are intended only to assist the bidder. Any changes in formula can be made at the bidder's discretions, as long as the detailed costs are clear, traceable and accurate as required. Ultimately the bidder is responsible for **ALL** values, formulas and calculations within the bidding sheets that are submitted to the Agency.

**Bids in MULTIPLE CURRENCIES should follow the following instructions:**

- For the "Offer Summary" tab bidders must add "Firm Fixed Price" column to the right of the current table for each additional currency.
- For the "CLIN Summary" tab, Bidders have 2 options: A) Two columns "Unit Price" and "Total Firm Fixed Price" may be added to the right of the current table for each additional currency of the bid; B) Bidders may duplicate the CLIN Summary tab for each currency bid.
- For the Detailed tabs Bidders have 2 options: A) Provide all the detailed data for all currencies in the table provided, selecting the individual currencies from the dropdown lists and summing only common currencies together in CLIN Summary/Offer Summary Sheets B) Duplicate the CLIN Summary tab for each currency bid.

DETAILED TABs	DESCRIPTION
<p><b>MATERIAL LABOUR TRAVEL ODCs</b></p>	<p>The detailed tables are to be completed by the bidder with all columns populated, and shall be expanded to include as many rows as necessary to provide the detail requested. The bidder is required to identify for each item the CLIN it is associated with from the drop down menu. Each column should then be populated using the column- specific instructions in the first row. Bidder may not delete columns within tables, or omit information from columns, but may add columns if necessary, although it's not anticipated this will be needed.</p> <p>Note CLINs with no costs associated with that item should also be selected within the table, and noted that there is no cost within that table for the CLIN. For example, if there is no labour associated with CLIN X.1, Select CLIN X.1 in the first column and then in the second column note "No Labour is associated with this CLIN". This will help to ensure that all the proper detail has been accounted for and properly allocated.</p> <p>Important Note: The Total sum of the "fully burdened" cost column should equal the grand total cost for each category (Labour, Material, etc.) to include profit as well as all indirect rates (G&amp;A/Overhead/Material handling/etc.) associated with that category. These indirect rates must be included in the total firm fixed price on the appropriate detailed tab but are no longer required to be shown as separate calculations at the bidding stage. However, the bidder is required to include the associated indirect costs in the totals of the detailed tab in the base unit costs. Alternatively, the bidder may choose to show these as separate calculations by expanding the table columns to show the additional costs due to these indirect rates (similar to the way profit is calculated). Note again although the detailed indirect rate calculations are not required at the bidding stage, this information will be requested from the winning bidder during pre-contract award discussions.</p>

**RATES**

As discussed previously in these instructions, the detailed indirect rate calculations are not required to be included in the bidding sheets, although the bidders may chose to do so. However, ALL bidders are required to state the G&A/OH/Material handling and any other indirect rates that they have applied to the bid.

CLIN Number	CLIN DESCRIPTION	Firm Fixed Price
Declare Currency =>		

<b>Grand Total Firm fixed Price - Base Contract</b>	-
<b>Grand Total Firm fixed Price - Base Contract + Evaluated Options</b>	-

CLIN 1	CLIN 1 (BASE-EVALUATED) - WP4.1.1 PNWI for JTS/ICC/ITC Lab	-
CLIN 2	CLIN 2 (BASE-EVALUATED) - WP4.1.2 PNWI for CSI Lab	-
CLIN 3	CLIN 3 (BASE-EVALUATED) - WP4.1.3 PNWI for JISR Lab	-
CLIN 4	CLIN 4 (BASE-EVALUATED) - WP4.1.4 PNWI for Services Support Centre	-
CLIN 5	CLIN 5 (BASE-EVALUATED) - WP4.1.5 PNWI for Shared Facility 5	-
CLIN 6	CLIN 6 (BASE-EVALUATED) - WP4.1.6 PNWI for Shared Facility 6	-
CLIN 7	CLIN 7 (BASE-EVALUATED) - WP4.2 PNWI for NSII Radio Antenna Cabling	-
CLIN 8	CLIN 8 (BASE-EVALUATED) - WP4.3 PNWI for ITB (BMD) Lab	-
CLIN 9	CLIN 9 (BASE-EVALUATED) - WP4.4 PNWI for STVF Lab	-
<b>Total Firm Fixed Price Base Contract</b>		-
CLIN 10	CLIN 10 (OPTIONAL-EVALUATED) - WP4.1.1 PNWI for JTS/ICC/ITC Lab	-
CLIN 11	CLIN 11 (OPTIONAL-EVALUATED) - WP4.1.2 PNWI for CSI Lab	-
CLIN 12	CLIN 12 (OPTIONAL-EVALUATED) - WP4.1.3 PNWI for JISR Lab	-
CLIN 13	CLIN 13 (OPTIONAL-EVALUATED) - WP4.1.4 PNWI for Services Support Centre	-
CLIN 14	CLIN 14 (OPTIONAL-EVALUATED) - WP4.1.5 PNWI for Shared Facility 5	-
CLIN 15	CLIN 15 (OPTIONAL-EVALUATED) - WP4.1.6 PNWI for Shared Facility 6	-
CLIN 16	CLIN 16 (OPTIONAL-EVALUATED) - WP4.3 PNWI for ITB (BMD) Lab	-
CLIN 17	CLIN 17 (OPTIONAL-EVALUATED) - WP4.4 PNWI for STVF Lab	-
<b>Total Firm Fixed Price Evaluated Options</b>		-

RFQ-CO-115268-AFAP CLIN Summary													
BASE CONTRACT													
CLIN	Description	Manufacturer	Model / Part Number	SOW Reference	Required Completion Date	Delivery Destination	Delivery Form	Unit of measure	Quantity	Unit Price	Total Firm Fixed Price	Investment or O&M	Optional Comments (Mandatory for zero costs lines)
										Declare Currency =>			
<b>1.0</b>	<b>CLIN 1 (BASE-EVALUATED) - WP4.1.1 PNWI for ITS/ICC/ITC Lab</b>												
<b>1.1</b>	<b>Project Management &amp; Installation Services</b>												
1.1.1	Installation of structured cabling system	n/a	n/a	para 3.2 and Annex A	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
1.1.2	Project Management	n/a	n/a	para 3.2 and Annex A	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
1.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.2 and Annex A	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment	
1.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.2 and Annex A	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
<b>1.2</b>	<b>Materials</b>												
1.2.1	Fibre Optic Cable Pairs - from patch panel to distribution box			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	22	-	-	Investment	
1.2.2	Fibre Optic Cable Pairs - from distribution box to desk adapter			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	22	-	-	Investment	
1.2.3	Fibre Optic Cable Pairs - from distribution box coiled under floor (as spare)			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment	
1.2.4	CAT Copper Pairs - from patch panel to distribution box			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	23	-	-	Investment	
1.2.5	CAT Copper Pairs - from distribution box to desk adapter			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	23	-	-	Investment	
1.2.6	CAT Copper Pairs - from distribution box coiled under floor (as spare)			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment	
1.2.7	Distribution box 4 port (under floor)			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	16	-	-	Investment	
1.2.8	HDMI cable from workstation to fixed display			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment	
1.2.9	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex A	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment	
1.2.10	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex A	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment	
1.2.11	Fixed infrastructure displays			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment	
<b>1.3</b>	<b>Support</b>												
1.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
1.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment	
<b>TOTAL PRICE CLIN 1</b>													
<b>2.0</b>	<b>CLIN 2 (BASE-EVALUATED) - WP4.1.2 PNWI for CSI Lab</b>												
<b>2.1</b>	<b>Project Management &amp; Installation Services</b>												
2.1.1	Installation of structured cabling system and patch panel components	n/a	n/a	para 3.3 and Annex B	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
2.1.2	Project Management	n/a	n/a	para 3.3 and Annex B	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
2.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.3 and Annex B	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment	
2.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.3 and Annex B	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
<b>2.2</b>	<b>Materials</b>												
2.2.1	Fibre Optic Cable Pairs - from CSI patch rack to Patch Rack 1 in room A5-310			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.2	Fibre Optic Cable Pairs - from CSI patch rack to Red switch in Patch Rack 1 in room A5-310			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment	
2.2.3	CAT Copper Pairs - from CSI Patch Rack to Black switch in Patch Rack 1 in room A5-310			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment	
2.2.4	Fibre Optic Cable Pairs - from 3 workbenches in CSI Lab to Patch Rack 1 in room A5-310			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
2.2.5	CAT Copper Pairs - from 3 workbenches in CSI Lab to Black switch in Patch Rack 1 in room A5-310			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
2.2.6	Fibre Optic Cable Pairs - from 4 port distribution boxes under floor (coiled up)			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
2.2.7	CAT Copper Pairs - from 4 port distribution boxes under floor (coiled up)			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
2.2.8	Fibre Optic Cable Pairs - from NC switch in CSI patch rack to 4 port distribution boxes under floor			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	18	-	-	Investment	
2.2.9	20 port Fibre Optic patch panel in CSI Patch Rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.10	Fibre Optic Cable Pair - from CSI patch rack to NR Dev 1 patch rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.11	Fibre Optic Cable Pair - from CSI patch rack to NR Dev 2 patch rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.12	CAT Copper Pairs - from NR IMPEX Admin Station to NR Dev 1 rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.13	CAT Copper Pairs - from NR IMPEX Admin Station to NR Dev 2 rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.14	Fibre Optic Cable Pairs - from NC Switch in CSI patch rack to 4 port distribution boxes			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment	
2.2.15	CAT Copper Pairs - from NC Switch in CSI patch rack to 4 port distribution boxes			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment	
2.2.16	CAT Copper Pairs - from 4 port distribution boxes coiled up			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment	
2.2.17	Fibre Optic Cable Pairs - from 4 port distribution boxes coiled up			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment	
2.2.18	Fibre Optic Cable Pair - from CSI patch rack to NR Dev 1 patch rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.19	Fibre Optic Cable Pair - from CSI patch rack to NR Dev 2 patch rack			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.20	Fibre Optic Cable Pairs - from 5 desks to 4 port distribution boxes			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment	
2.2.21	CAT Copper Pairs - from CSI patch rack (2 pairs each) to LOMP, Leonardo, Thales GPS Racks			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment	
2.2.22	CAT Copper Pairs - from CS Patching Rack coiled up under Test Director desk			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment	
2.2.23	Fibre Optic Pairs - from CS Patching Rack coiled up under Test Director desk			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment	
2.2.24	Fibre Optic Pairs - from CS Patching Rack coiled up under NS WAN desk			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment	
2.2.25	Fibre Optic Pairs - one pair from each L16 Rack to external GPS antennae (40 metres length)			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
2.2.26	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex B	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment	
2.2.27	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex B	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment	
2.2.28	FO cable pairs from internal racks to externally mounted GPS antennae			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment	
<b>2.3</b>	<b>Support</b>												
2.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
2.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment	
<b>TOTAL PRICE CLIN 2</b>													
<b>3.0</b>	<b>CLIN 3 (BASE-EVALUATED) - WP4.1.3 PNWI for JSR Lab</b>												
<b>3.1</b>	<b>Project Management &amp; Installation Services</b>												
3.1.1	Installation of structured cabling system	n/a	n/a	para 3.4 and Annex C	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
3.1.2	Project Management	n/a	n/a	para 3.4 and Annex C	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
3.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.4 and Annex C	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment	



3.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.4 and Annex C	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>3.2</b>	<b>Materials</b>			Annex C								
3.2.1	Fibre Optic Cable Pairs - from patch panel to distribution box			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
3.2.2	Fibre Optic Cable Pairs - from distribution box to desk adapter			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
3.2.3	Fibre Optic Cable Pairs - from distribution box coiled under floor (as spare)			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
3.2.4	CAT Copper Pairs - from patch panel to distribution box			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
3.2.5	CAT Copper Pairs - from distribution box to desk adapter			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	20	-	-	Investment
3.2.6	Distribution box 4 port (under floor)			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
3.2.7	HDMI cable from workstation to fixed display			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
3.2.8	Media converter fibre optic to CAT 6a			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment
3.2.9	HDMI 2.0 15 metre cables			Annex C	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
3.2.10	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex C	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
3.2.11	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex C	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>3.3</b>	<b>Support</b>			para 4								
3.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
3.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 3</b>												
<b>4.0</b>	<b>CLIN 4 (BASE-EVALUATED) - WP4.1.4 PNWI for Services Support Centre</b>											
<b>4.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.5 and Annex D								
4.1.1	Installation of structured cabling system	n/a	n/a	para 3.5 and Annex D	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
4.1.2	Project Management	n/a	n/a	para 3.5 and Annex D	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
4.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.5 and Annex D	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
4.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.5 and Annex D	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>4.2</b>	<b>Materials</b>			Annex D								
4.2.1	Fibre Optic Cable Pairs - from patch panel to distribution box			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
4.2.2	Fibre Optic Cable Pairs - from distribution box to desk adapter			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
4.2.3	Fibre Optic Cable Pairs - from distribution box coiled under floor (as spare)			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
4.2.4	CAT Copper Pairs - from patch panel to distribution box			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
4.2.5	CAT Copper Pairs - from distribution box to desk adapter			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
4.2.6	CAT Copper Pairs - from distribution box coiled under floor (as spare)			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
4.2.7	Distribution box 4 port (under floor)			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	8	-	-	Investment
4.2.8	HDMI cable from workstation to fixed display			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
4.2.9	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex D	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
4.2.10	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex D	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>4.3</b>	<b>Support</b>			para 4								
4.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
4.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 4</b>												
<b>5.0</b>	<b>CLIN 5 (BASE-EVALUATED) - WP4.1.5 PNWI for Shared Facility 5</b>											
<b>5.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.6 and Annex E								
5.1.1	Installation of structured cabling system	n/a	n/a	para 3.6 and Annex E	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
5.1.2	Project Management	n/a	n/a	para 3.6 and Annex E	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
5.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.6 and Annex E	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
5.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.6 and Annex E	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>5.2</b>	<b>Materials</b>											
5.2.1	Fibre Optic Cable Pairs - from patch panel to distribution box			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
5.2.2	Fibre Optic Cable Pairs - from distribution box to desk adapter			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
5.2.3	Fibre Optic Cable Pairs - from distribution box coiled under floor (as spare)			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
5.2.4	CAT Copper Pairs - from patch panel to distribution box			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
5.2.5	CAT Copper Pairs - from distribution box to desk adapter			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
5.2.6	CAT Copper Pairs - from distribution box coiled under floor (as spare)			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
5.2.7	Distribution box 4 port (under floor)			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	8	-	-	Investment
5.2.8	HDMI cable from workstation to fixed display			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
5.2.9	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex E	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
5.2.10	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex E	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>5.3</b>	<b>Support</b>			para 4								
5.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
5.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 5</b>												
<b>6.0</b>	<b>CLIN 6 (BASE-EVALUATED) - WP4.1.6 PNWI for Shared Facility 6</b>											
<b>6.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.7 and Annex F								
6.1.1	Installation of structured cabling system and rack components	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
6.1.2	Project Management	n/a	n/a	para 3.7 and Annex F	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
6.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.7 and Annex F	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
6.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.7 and Annex F	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>6.2</b>	<b>Materials</b>			Annex F								
6.2.1	Fibre Optic Cable Pairs - from patch panel to distribution box			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
6.2.2	Fibre Optic Cable Pairs - from distribution box to desk adapter			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
6.2.3	Fibre Optic Cable Pairs - from distribution box coiled under floor (as spare)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
6.2.4	CAT Copper Pairs - from patch panel to distribution box			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
6.2.5	CAT Copper Pairs - from distribution box to desk adapter			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	7	-	-	Investment
6.2.6	CAT Copper Pairs - from distribution box coiled under floor (as spare)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
6.2.7	Distribution box 4 port (under floor)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment

6.2.8	HDMI cable from workstation to fixed display			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
6.2.9	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
6.2.10	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>6.3</b>	<b>Support</b>			para 4								
6.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
6.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 6</b>												
<b>7.0</b>	<b>CLIN 7 (BASE-EVALUATED) - WP4.2 PNWI for NSII Radio Antenna Cabling</b>											
<b>7.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.8 and Annex G								
7.1.1	Installation of structured cabling system	n/a	n/a	para 3.8 and Annex G	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
7.1.2	Project Management	n/a	n/a	para 3.8 and Annex G	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
7.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.8 and Annex G	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
7.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.8 and Annex G	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>7.2</b>	<b>Materials</b>			Annex G								
7.2.1	RF cable for GPS reference system RG241 50 Ohm, including pole ~30 metres with N type male connectors			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.2	RF cable for DLOS 1 outdoor unit (Redline) ~ 30 metres, 50 Ohm (example EC4-50-HF-FR) with N type male connectors			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.3	CAT6A SFTP cable outdoor UV protected and waterproof ~ 30 metres - for DLOS 2 transceiver			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
7.2.4	Power over Ethernet injector in the equipment rack.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.5	RJ45 Connector to fit the Proxim Quickbridge transceiver.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
7.2.6	media convertor 10/100Mbit Ethernet to MM SC FO			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
7.2.7	matching FO to 10/100 media convertor in the lab.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
7.2.8	RJ11 to serial port convertor.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.9	24 core FO cable (12 duplex) with terminators ~ 100 metres from the lab to an external equipment rack at the base of the mast.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.10	12 Port Duplex FO SC Multimode Patch Panel			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
7.2.11	HF patch panel Weather sealed box (min 15 cm high x 15 cm wide x 15 cm deep), sliding panel or door at the front and sealed RF cable entry at the bottom			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
7.2.12	N type (female) connector on each patch panel with vertical access for termination of 1 RF cable			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
7.2.13	RF Cable RG214 50 Ohm flexible cable (<6 dB total loss at 80 m at 30 MHz) with N type male connectors ~ 30, 50, 80 metres lengths			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
7.2.14	RF cable for UHF radio AVA7-50 50 Ohm flexible cable (<4 dB total loss at 120 m at 300 MHz) with N type male connectors ~ 120 metres			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.15	Redline receiver to be installed in the equipment rack.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.16	media convertor for E1 to fibre to the lab.			Annex G	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
7.2.17	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex G	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
7.2.18	Duct/conduit for cabling from racks to roof	n/a	n/a	Annex G	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>7.3</b>	<b>Support</b>			para 4								
7.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
7.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 7</b>												
<b>8.0</b>	<b>CLIN 8 (BASE-EVALUATED) - WP4.3 PNWI for ITB (BMD) Lab</b>											
<b>8.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.9 and Annex H								
8.1.1	Installation of structured cabling system	n/a	n/a	para 3.9 and Annex H	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
8.1.2	Project Management	n/a	n/a	para 3.9 and Annex H	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
8.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.9 and Annex H	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
8.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance	n/a	n/a	para 3.9 and Annex H	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>8.2</b>	<b>Materials</b>			Annex H								
8.2.1	Design One			Annex H			----					
8.2.1.1	CAT 6A cable, from the Patch Rack connectors to a 4 port distribution box			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.1.2	CAT 6A patch leads from 4 port distribution box to desks			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.2	Design Two			Annex H								
8.2.2.1	pairs OM4 cable, from the Patch Rack connectors to a 4 port distribution box including media converters			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.2.2	OM4 patch leads from 4 port distribution box to desks			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.2.3	media converters			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.3	Design Three			Annex H								
8.2.3.1	pairs OM4 cable, from the Patch Rack connectors to a 4 port distribution box			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.3.2	OM4 patch leads from 4 port distribution box to desks			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	120	-	-	Investment
8.2.4	All Designs			Annex H								
8.2.4.1	CAT Copper Pairs - from patch panel to distribution box			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	11	-	-	Investment
8.2.4.2	CAT Copper Pairs - patch leads from distribution box to desk adapter			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	11	-	-	Investment
8.2.4.3	Total distribution box 4 port (under floor)			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	33	-	-	Investment
8.2.4.4	Clips, ties, connectors and miscellaneous small items	n/a	n/a	Annex H	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
8.2.4.5	Duct/conduit for cabling from patch rack to distribution boxes	n/a	n/a	Annex H	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>8.3</b>	<b>Support</b>			para 4								
8.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
8.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 8</b>												
<b>9.0</b>	<b>CLIN 9 (BASE-EVALUATED) - WP4.4 PNWI for STVF Lab</b>											
<b>9.1</b>	<b>Project Management &amp; Installation Services</b>			para 3.10 and Annex I								
9.1.1	Installation of structured cabling system	n/a	n/a	para 3.10 and Annex I	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
9.1.2	Project Management	n/a	n/a	para 3.10 and Annex I	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment

9.1.3	Perform structured cabling system testing and certification	n/a	n/a	para 3.10 and Annex I	EDC + 17 weeks	NCIA Den Haag	electronic files and / or hardcopies	set of documentation	1	-	-	Investment
9.1.4	Provide structured cabling system documentation, certification and schematics and labelling of components and cables for acceptance			para 3.10 and Annex I	EDC + 20 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>9.2</b>	<b>Materials</b>			Annex I								
9.2.1	19" racks (48HE height)			Annex I								
9.2.1.1	a. Area B : Racks A - F			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment
9.2.1.2	b. Area C : Racks G - L			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment
9.2.2	19" rack M (9HE height) mounted on the ceiling			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
9.2.3	2 PDU (minimal 24x C13 and 4x C19 per PDU) in every rack.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	26	-	-	Investment
9.2.4	1 rack mountable power-strip (8 sockets) in every rack.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	13	-	-	Investment
9.2.5	CAT6A S/FTP patch panels in the rack A, G.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
9.2.6	OM4 LC fiber 7 optic patch panels 48ports/1U in rack A			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
9.2.7	OM4 LC fiber 7 optic patch panels 48ports/1U in rack G			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	1	-	-	Investment
9.2.8	cabling with 1.5 meters excess over length inside the racks.	n/a	n/a	Annex I	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
9.2.9	supply pairs CAT6A S/FTP (shielded) in each rack placed in Area B towards the central in Rack A.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	72	-	-	Investment
9.2.10	supply pairs CAT6A S/FTP (shielded) in each rack placed in Area C towards the central in Rack G.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	72	-	-	Investment
9.2.11	CAT6A S/FTP patch panel in the top of the racks B,C,D,E,F,H,I,J,K,L.			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment
9.2.12	supply pairs OM4 type fiber terminated on a LC female connector in each rack Area B			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	144	-	-	Investment
9.2.13	supply pairs OM4 type fiber terminated on a LC female connector in each rack Area C			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	144	-	-	Investment
9.2.14	OM4 LC fiber optic S/FTP patch panel in the top of the racks B,C,D,E,F,H,I,J,K,L below the CAT6A			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	10	-	-	Investment
9.2.15	supply pairs OM4 fiber drops to the each Desk Type 1 position in Black area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	44	-	-	Investment
9.2.16	supply pairs OM4 fiber drops to the each Desk Type 2 position in Black area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	6	-	-	Investment
9.2.17	supply pairs OM4 fiber drops to the each Desk Type 1 position in Red area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	20	-	-	Investment
9.2.18	supply pairs OM4 fiber drops to the each Desk Type 3 position in Red area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	48	-	-	Investment
9.2.19	supply pairs OM4 fiber drops to the each Desk Type 4 position in Red area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
9.2.20	supply pairs OM4 fiber drops to the each Desk Type 1 position in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	152	-	-	Investment
9.2.21	supply pairs OM4 fiber drops to the each Desk Type 2 position in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	96	-	-	Investment
9.2.22	supply pairs OM4 fiber drops to the each Desk Type 3 position in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	152	-	-	Investment
9.2.23	supply pairs OM4 fiber drops to the each Desk Type 4 position in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	84	-	-	Investment
9.2.24	Panduit cable ducts for fiber optic cables - under floor	n/a	n/a	Annex I	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
9.2.25	Cable ladders for copper cable - installed under floor	n/a	n/a	Annex I	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
9.2.26	floor pods patch-panel suitable for under the raised floor termination	n/a	n/a	Annex I	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
9.2.27	Fiber and copper cabling mounted VELCRO ties at regular intervals of minimum 1 meter.	n/a	n/a	Annex I	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
9.2.28	supply pairs OM4 MM fiber towards the roof, where antennas are located			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	8	-	-	Investment
9.2.29	supply pairs OM4 MM fiber towards the roof, where antennas are located			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	8	-	-	Investment
9.2.30	supply pairs OM4 fiber drops to the workbench 1 in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
9.2.31	supply pairs OM4 fiber drops to the workbench 1 in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
9.2.32	supply pairs OM4 fiber drops to the workbench 1 in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	12	-	-	Investment
9.2.33	supply pairs OM4 fiber drops to the workbench 1 in Yellow area			Annex I	EDC + 8 weeks	NCIA Den Haag	item	each	8	-	-	Investment
<b>9.3</b>	<b>Support</b>			para 4								
9.3.1	Integrated Logistics Support (excluding Warranty)	n/a	n/a	para 4.1 to 4.7	EDC + 8 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
9.3.2	Warranty	n/a	n/a	para 4.8	1 year from acceptance	NCIA Den Haag	warranty	year	1	-	-	Investment
<b>TOTAL PRICE CLIN 9</b>												
<b>Total Firm Fixed Price- Base Contract</b>												

OPTIONAL CLINS- Evaluated													
CLIN	Description			SOW Reference	Required Completion Date	Delivery Destination	Delivery Form	Unit of measure	Quantity	Unit Price	Total Firm Fixed Price	Investment or O&M	Optional Comments (Mandatory for zero costs lines)
										Declare Currency =>			
<b>10.0</b>	<b>CLIN 10 (OPTIONAL-EVALUATED) - WP4.1.1 PNWI for JTS/ICC/JTC Lab</b>												
<b>10.1</b>	<b>Project Management &amp; Installation Services</b>												
10.1.1	Option: install two fixed 65 inch wall mounted monitors with power and HDMI cables (10 metres)	n/a	n/a	para 3.2 and Annex A	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
10.1.2	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.2 and Annex A	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
<b>10.2</b>	<b>Materials</b>												
10.2.1	Option: fixed 65 inch wall mounted monitors with power and HDMI cables (10 metres)			Annex A	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment	
<b>TOTAL PRICE CLIN 10</b>													
<b>11.0</b>	<b>CLIN 11 (OPTIONAL-EVALUATED) - WP4.1.2 PNWI for CSJ Lab</b>												
<b>11.1</b>	<b>Project Management &amp; Installation Services</b>												
11.1.1	Option: install smart boards with cabling to NC test director desk.	n/a	n/a	para 3.3 and Annex B	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
11.1.2	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.3 and Annex B	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	
<b>11.2</b>	<b>Materials</b>												
11.2.1	Option: Smart board with cabling to NC test director desk			Annex B	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment	
<b>TOTAL PRICE CLIN 11</b>													
<b>12.0</b>	<b>CLIN 12 (OPTIONAL-EVALUATED) - WP4.1.3 PNWI for JISR Lab</b>												
<b>12.1</b>	<b>Project Management &amp; Installation Services</b>												
12.1.1	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.4 and Annex C	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment	

<b>TOTAL PRICE CLIN 12</b>										-		
<b>13.0</b>	<b>CLIN 13 (OPTIONAL-EVALUATED) - WP4.1.4 PNWI for Services Support Centre</b>											
<b>13.1</b>	<b>Project Management &amp; Installation Services</b>											
13.1.1	Option: Install fixed infrastructure displays 65 inch	n/a	n/a	para 3.5 and Annex D	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
13.1.2	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.5 and Annex D	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>13.2</b>	<b>Materials</b>											
13.2.1	Option: Fixed infrastructure displays 65 inch			Annex D	EDC + 8 weeks	NCIA Den Haag	item	each	4	-	-	Investment
<b>TOTAL PRICE CLIN 13</b>										-		
<b>14.0</b>	<b>CLIN 14 (OPTIONAL-EVALUATED) - WP4.1.5 PNWI for Shared Facility 5</b>											
<b>14.1</b>	<b>Project Management &amp; Installation Services</b>											
14.1.1	Option: Install fixed infrastructure displays 65 inch	n/a	n/a	para 3.6 and Annex E	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
14.1.2	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.6 and Annex E	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>14.2</b>	<b>Materials</b>											
14.2.1	Option: Fixed infrastructure displays 65 inch			Annex E	EDC + 8 weeks	NCIA Den Haag	item	each	3	-	-	Investment
<b>TOTAL PRICE CLIN 14</b>										-		
<b>15.0</b>	<b>CLIN 15 (OPTIONAL-EVALUATED) - WP4.1.6 PNWI for Shared Facility 6</b>											
<b>15.1</b>	<b>Project Management &amp; Installation Services</b>											
15.1.1	Option: install 48 port switches in Rack 1 (NS connections)	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
15.1.2	Option: install 48 port switch in Rack 1 (NU/NR connections)	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
15.1.3	Option: install 48 port switch in Rack 2 (CFBL Red connections)	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
15.1.4	Option: install 48 port switch in Rack 2 (CFBL Pink connections)	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
15.1.5	Option: install 48 port switch in Rack 2 (CFBL Yellow connections)	n/a	n/a	para 3.7 and Annex F	EDC + 16 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
15.1.6	Option: provide two personnel for 5 days (total 10 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.7 and Annex F	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>15.2</b>	<b>Materials</b>											
15.2.1	Option: Fixed infrastructure displays 65 inch			Annex F	EDC + 8 weeks	NCIA Den Haag	item	each	2	-	-	Investment
15.2.2	Option: 48 port switch in Rack 1 (NS connections)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	2	-	-	Investment
15.2.3	Option: 48 port switch in Rack 2 (NU/NR connections)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
15.2.4	Option: 48 port switch in Rack 2 (CFBL Red connections)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
15.2.5	Option: 48 port switch in Rack 2 (CFBL Pink connections)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
15.2.6	Option: 48 port switch in Rack 2 (CFBL Yellow connections)			Annex F	EDC + 8 weeks	NCIA Den Haag	item	set	1	-	-	Investment
<b>TOTAL PRICE CLIN 15</b>										-		
<b>16.0</b>	<b>CLIN 16 (OPTIONAL-EVALUATED) - WP4.3 PNWI for ITB (BMD) Lab</b>											
<b>16.1</b>	<b>Project Management &amp; Installation Services</b>											
16.1.1	Option: relocate patch rack	n/a	n/a	para 3.9 and Annex H	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
16.1.2	Option: relocate, connect and test the display connections to the video matrix	n/a	n/a	para 3.9 and Annex H	EDC + 21 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
16.1.3	Option: provide two personnel for 20 days (total 40 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.9 and Annex H	EDC + 23 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>16.2</b>	<b>Materials</b>											
16.2.1	Option: Video Distribution: OM4 pairs from patch rack to desk video displays			Annex H	EDC + 8 weeks	NCIA Den Haag	item	each	63	-	-	Investment
<b>TOTAL PRICE CLIN 16</b>										-		
<b>17.0</b>	<b>CLIN 17 (OPTIONAL-EVALUATED) - WP4.4 PNWI for STVF Lab</b>											
<b>17.1</b>	<b>Project Management &amp; Installation Services</b>											
17.1.1	Option: provide two personnel for 20 days (total 40 Man Days) to support the purchaser making data and power connections from under the floor or above the ceiling to the desk adapters.	n/a	n/a	para 3.10 and Annex I	EDC + 23 weeks	NCIA Den Haag	services	set of activities	1	-	-	Investment
<b>TOTAL PRICE CLIN 17</b>										-		
<b>Total Firm Fixed Price- Evaluated Options</b>										-		





9.2.23	Insert Labour category name here	-	-	0.00	0.00
9.2.24	Insert Labour category name here	-	-	0.00	0.00
9.2.25	Insert Labour category name here	-	-	0.00	0.00
9.2.26	Insert Labour category name here	-	-	0.00	0.00
9.2.27	Insert Labour category name here	-	-	0.00	0.00
9.2.28	Insert Labour category name here	-	-	0.00	0.00
9.2.29	Insert Labour category name here	-	-	0.00	0.00
9.2.30	Insert Labour category name here	-	-	0.00	0.00
9.2.31	Insert Labour category name here	-	-	0.00	0.00
9.2.32	Insert Labour category name here	-	-	0.00	0.00
9.2.33	Insert Labour category name here	-	-	0.00	0.00
9.3.1	Insert Labour category name here	-	-	0.00	0.00
9.3.2	Insert Labour category name here	-	-	0.00	0.00
10.1.1	Insert Labour category name here	-	-	0.00	0.00
10.1.2	Insert Labour category name here	-	-	0.00	0.00
10.2.1	Insert Labour category name here	-	-	0.00	0.00
11.1.1	Insert Labour category name here	-	-	0.00	0.00
11.1.2	Insert Labour category name here	-	-	0.00	0.00
11.2.1	Insert Labour category name here	-	-	0.00	0.00
12.1.1	Insert Labour category name here	-	-	0.00	0.00
13.1.1	Insert Labour category name here	-	-	0.00	0.00
13.1.2	Insert Labour category name here	-	-	0.00	0.00
13.2.1	Insert Labour category name here	-	-	0.00	0.00
14.1.1	Insert Labour category name here	-	-	0.00	0.00
14.1.2	Insert Labour category name here	-	-	0.00	0.00
14.2.1	Insert Labour category name here	-	-	0.00	0.00
15.1.1	Insert Labour category name here	-	-	0.00	0.00
15.1.2	Insert Labour category name here	-	-	0.00	0.00
15.1.3	Insert Labour category name here	-	-	0.00	0.00
15.1.4	Insert Labour category name here	-	-	0.00	0.00
15.1.5	Insert Labour category name here	-	-	0.00	0.00
15.1.6	Insert Labour category name here	-	-	0.00	0.00
15.2.1	Insert Labour category name here	-	-	0.00	0.00
15.2.2	Insert Labour category name here	-	-	0.00	0.00
15.2.3	Insert Labour category name here	-	-	0.00	0.00
15.2.4	Insert Labour category name here	-	-	0.00	0.00
15.2.5	Insert Labour category name here	-	-	0.00	0.00
15.2.6	Insert Labour category name here	-	-	0.00	0.00
16.1.1	Insert Labour category name here	-	-	0.00	0.00
16.1.2	Insert Labour category name here	-	-	0.00	0.00
16.1.3	Insert Labour category name here	-	-	0.00	0.00
16.2.1	Insert Labour category name here	-	-	0.00	0.00
17.1.1	Insert Labour category name here	-	-	0.00	0.00
<b>Total</b>				<b>0.00</b>	<b>0.00</b>









CLIN	Origin/Destination	Year	Currency	Nr of trips	Nr of people	Nr of Days per trip	Cost per roundtrip	Per Diem	Extended cost	Profit	Total Cost
Example. 1.1.1	Rome/The Hague	2020	Euro (EUR)	4	3	5	600.00	150.00	16,200.00	810.00	17,010.00
1.1.1	Insert Origin/destination								-	0.00	0.00
1.1.2	Insert Origin/destination								-	0.00	0.00
1.1.3	Insert Origin/destination								-	0.00	0.00
1.1.4	Insert Origin/destination								-	0.00	0.00
1.2.1	Insert Origin/destination								-	0.00	0.00
1.2.2	Insert Origin/destination								-	0.00	0.00
1.2.3	Insert Origin/destination								-	0.00	0.00
1.2.4	Insert Origin/destination								-	0.00	0.00
1.2.5	Insert Origin/destination								-	0.00	0.00
1.2.6	Insert Origin/destination								-	0.00	0.00
1.2.7	Insert Origin/destination								-	0.00	0.00
1.2.8	Insert Origin/destination								-	0.00	0.00
1.2.9	Insert Origin/destination								-	0.00	0.00
1.2.10	Insert Origin/destination								-	0.00	0.00
1.2.11	Insert Origin/destination								-	0.00	0.00
1.3.1	Insert Origin/destination								-	0.00	0.00
1.3.2	Insert Origin/destination								-	0.00	0.00
2.1.1	Insert Origin/destination								-	0.00	0.00
2.1.2	Insert Origin/destination								-	0.00	0.00
2.1.3	Insert Origin/destination								-	0.00	0.00
2.1.4	Insert Origin/destination								-	0.00	0.00
2.2.1	Insert Origin/destination								-	0.00	0.00
2.2.2	Insert Origin/destination								-	0.00	0.00
2.2.3	Insert Origin/destination								-	0.00	0.00
2.2.4	Insert Origin/destination								-	0.00	0.00
2.2.5	Insert Origin/destination								-	0.00	0.00
2.2.6	Insert Origin/destination								-	0.00	0.00
2.2.7	Insert Origin/destination								-	0.00	0.00
2.2.8	Insert Origin/destination								-	0.00	0.00
2.2.9	Insert Origin/destination								-	0.00	0.00
2.2.10	Insert Origin/destination								-	0.00	0.00
2.2.11	Insert Origin/destination								-	0.00	0.00
2.2.12	Insert Origin/destination								-	0.00	0.00
2.2.13	Insert Origin/destination								-	0.00	0.00
2.2.14	Insert Origin/destination								-	0.00	0.00
2.2.15	Insert Origin/destination								-	0.00	0.00
2.2.16	Insert Origin/destination								-	0.00	0.00
2.2.17	Insert Origin/destination								-	0.00	0.00
2.2.18	Insert Origin/destination								-	0.00	0.00
2.2.19	Insert Origin/destination								-	0.00	0.00
2.2.20	Insert Origin/destination								-	0.00	0.00
2.2.21	Insert Origin/destination								-	0.00	0.00
2.2.22	Insert Origin/destination								-	0.00	0.00

2.2.23	Insert Origin/destination	-	0.00	0.00
2.2.24	Insert Origin/destination	-	0.00	0.00
2.2.25	Insert Origin/destination	-	0.00	0.00
2.2.26	Insert Origin/destination	-	0.00	0.00
2.2.27	Insert Origin/destination	-	0.00	0.00
2.2.28	Insert Origin/destination	-	0.00	0.00
2.3.1	Insert Origin/destination	-	0.00	0.00
2.3.2	Insert Origin/destination	-	0.00	0.00
3.1.1	Insert Origin/destination	-	0.00	0.00
3.1.2	Insert Origin/destination	-	0.00	0.00
3.1.3	Insert Origin/destination	-	0.00	0.00
3.1.4	Insert Origin/destination	-	0.00	0.00
3.2.1	Insert Origin/destination	-	0.00	0.00
3.2.2	Insert Origin/destination	-	0.00	0.00
3.2.3	Insert Origin/destination	-	0.00	0.00
3.2.4	Insert Origin/destination	-	0.00	0.00
3.2.5	Insert Origin/destination	-	0.00	0.00
3.2.6	Insert Origin/destination	-	0.00	0.00
3.2.7	Insert Origin/destination	-	0.00	0.00
3.2.8	Insert Origin/destination	-	0.00	0.00
3.2.9	Insert Origin/destination	-	0.00	0.00
3.2.10	Insert Origin/destination	-	0.00	0.00
3.2.11	Insert Origin/destination	-	0.00	0.00
3.3.1	Insert Origin/destination	-	0.00	0.00
3.3.2	Insert Origin/destination	-	0.00	0.00
4.1.1	Insert Origin/destination	-	0.00	0.00
4.1.2	Insert Origin/destination	-	0.00	0.00
4.1.3	Insert Origin/destination	-	0.00	0.00
4.1.4	Insert Origin/destination	-	0.00	0.00
4.2.1	Insert Origin/destination	-	0.00	0.00
4.2.2	Insert Origin/destination	-	0.00	0.00
4.2.3	Insert Origin/destination	-	0.00	0.00
4.2.4	Insert Origin/destination	-	0.00	0.00
4.2.5	Insert Origin/destination	-	0.00	0.00
4.2.6	Insert Origin/destination	-	0.00	0.00
4.2.7	Insert Origin/destination	-	0.00	0.00
4.2.8	Insert Origin/destination	-	0.00	0.00
4.2.9	Insert Origin/destination	-	0.00	0.00
4.2.10	Insert Origin/destination	-	0.00	0.00
4.3.1	Insert Origin/destination	-	0.00	0.00
4.3.2	Insert Origin/destination	-	0.00	0.00
5.1.1	Insert Origin/destination	-	0.00	0.00
5.1.2	Insert Origin/destination	-	0.00	0.00
5.1.3	Insert Origin/destination	-	0.00	0.00
5.1.4	Insert Origin/destination	-	0.00	0.00
5.2.1	Insert Origin/destination	-	0.00	0.00

5.2.2	Insert Origin/destination	-	0.00	0.00
5.2.3	Insert Origin/destination	-	0.00	0.00
5.2.4	Insert Origin/destination	-	0.00	0.00
5.2.5	Insert Origin/destination	-	0.00	0.00
5.2.6	Insert Origin/destination	-	0.00	0.00
5.2.7	Insert Origin/destination	-	0.00	0.00
5.2.8	Insert Origin/destination	-	0.00	0.00
5.2.9	Insert Origin/destination	-	0.00	0.00
5.2.10	Insert Origin/destination	-	0.00	0.00
5.3.1	Insert Origin/destination	-	0.00	0.00
5.3.2	Insert Origin/destination	-	0.00	0.00
6.1.1	Insert Origin/destination	-	0.00	0.00
6.1.2	Insert Origin/destination	-	0.00	0.00
6.1.3	Insert Origin/destination	-	0.00	0.00
6.1.4	Insert Origin/destination	-	0.00	0.00
6.2.1	Insert Origin/destination	-	0.00	0.00
6.2.2	Insert Origin/destination	-	0.00	0.00
6.2.3	Insert Origin/destination	-	0.00	0.00
6.2.4	Insert Origin/destination	-	0.00	0.00
6.2.5	Insert Origin/destination	-	0.00	0.00
6.2.6	Insert Origin/destination	-	0.00	0.00
6.2.7	Insert Origin/destination	-	0.00	0.00
6.2.8	Insert Origin/destination	-	0.00	0.00
6.2.9	Insert Origin/destination	-	0.00	0.00
6.2.10	Insert Origin/destination	-	0.00	0.00
6.3.1	Insert Origin/destination	-	0.00	0.00
6.3.2	Insert Origin/destination	-	0.00	0.00
7.1.1	Insert Origin/destination	-	0.00	0.00
7.1.2	Insert Origin/destination	-	0.00	0.00
7.1.3	Insert Origin/destination	-	0.00	0.00
7.1.4	Insert Origin/destination	-	0.00	0.00
7.2.1	Insert Origin/destination	-	0.00	0.00
7.2.2	Insert Origin/destination	-	0.00	0.00
7.2.3	Insert Origin/destination	-	0.00	0.00
7.2.4	Insert Origin/destination	-	0.00	0.00
7.2.5	Insert Origin/destination	-	0.00	0.00
7.2.6	Insert Origin/destination	-	0.00	0.00
7.2.7	Insert Origin/destination	-	0.00	0.00
7.2.8	Insert Origin/destination	-	0.00	0.00
7.2.9	Insert Origin/destination	-	0.00	0.00
7.2.10	Insert Origin/destination	-	0.00	0.00
7.2.11	Insert Origin/destination	-	0.00	0.00
7.2.12	Insert Origin/destination	-	0.00	0.00
7.2.13	Insert Origin/destination	-	0.00	0.00
7.2.14	Insert Origin/destination	-	0.00	0.00
7.2.15	Insert Origin/destination	-	0.00	0.00

7.2.16	Insert Origin/destination	-	0.00	0.00
7.2.17	Insert Origin/destination	-	0.00	0.00
7.2.18	Insert Origin/destination	-	0.00	0.00
7.3.1	Insert Origin/destination	-	0.00	0.00
7.3.2	Insert Origin/destination	-	0.00	0.00
8.1.1	Insert Origin/destination	-	0.00	0.00
8.1.2	Insert Origin/destination	-	0.00	0.00
8.1.3	Insert Origin/destination	-	0.00	0.00
8.1.4	Insert Origin/destination	-	0.00	0.00
8.2.1.1	Insert Origin/destination	-	0.00	0.00
8.2.1.2	Insert Origin/destination	-	0.00	0.00
8.2.2.1	Insert Origin/destination	-	0.00	0.00
8.2.2.2	Insert Origin/destination	-	0.00	0.00
8.2.2.3	Insert Origin/destination	-	0.00	0.00
8.2.3.1	Insert Origin/destination	-	0.00	0.00
8.2.3.2	Insert Origin/destination	-	0.00	0.00
8.2.4.1	Insert Origin/destination	-	0.00	0.00
8.2.4.2	Insert Origin/destination	-	0.00	0.00
8.2.4.3	Insert Origin/destination	-	0.00	0.00
8.2.4.4	Insert Origin/destination	-	0.00	0.00
8.2.4.5	Insert Origin/destination	-	0.00	0.00
8.3.1	Insert Origin/destination	-	0.00	0.00
8.3.2	Insert Origin/destination	-	0.00	0.00
9.1.1	Insert Origin/destination	-	0.00	0.00
9.1.2	Insert Origin/destination	-	0.00	0.00
9.1.3	Insert Origin/destination	-	0.00	0.00
9.1.4	Insert Origin/destination	-	0.00	0.00
9.2.1.1	Insert Origin/destination	-	0.00	0.00
9.2.1.2	Insert Origin/destination	-	0.00	0.00
9.2.2	Insert Origin/destination	-	0.00	0.00
9.2.3	Insert Origin/destination	-	0.00	0.00
9.2.4	Insert Origin/destination	-	0.00	0.00
9.2.5	Insert Origin/destination	-	0.00	0.00
9.2.6	Insert Origin/destination	-	0.00	0.00
9.2.7	Insert Origin/destination	-	0.00	0.00
9.2.8	Insert Origin/destination	-	0.00	0.00
9.2.9	Insert Origin/destination	-	0.00	0.00
9.2.10	Insert Origin/destination	-	0.00	0.00
9.2.11	Insert Origin/destination	-	0.00	0.00
9.2.12	Insert Origin/destination	-	0.00	0.00
9.2.13	Insert Origin/destination	-	0.00	0.00
9.2.14	Insert Origin/destination	-	0.00	0.00
9.2.15	Insert Origin/destination	-	0.00	0.00
9.2.16	Insert Origin/destination	-	0.00	0.00
9.2.17	Insert Origin/destination	-	0.00	0.00
9.2.18	Insert Origin/destination	-	0.00	0.00

9.2.19	Insert Origin/destination	-	0.00	0.00
9.2.20	Insert Origin/destination	-	0.00	0.00
9.2.21	Insert Origin/destination	-	0.00	0.00
9.2.22	Insert Origin/destination	-	0.00	0.00
9.2.23	Insert Origin/destination	-	0.00	0.00
9.2.24	Insert Origin/destination	-	0.00	0.00
9.2.25	Insert Origin/destination	-	0.00	0.00
9.2.26	Insert Origin/destination	-	0.00	0.00
9.2.27	Insert Origin/destination	-	0.00	0.00
9.2.28	Insert Origin/destination	-	0.00	0.00
9.2.29	Insert Origin/destination	-	0.00	0.00
9.2.30	Insert Origin/destination	-	0.00	0.00
9.2.31	Insert Origin/destination	-	0.00	0.00
9.2.32	Insert Origin/destination	-	0.00	0.00
9.2.33	Insert Origin/destination	-	0.00	0.00
9.3.1	Insert Origin/destination	-	0.00	0.00
9.3.2	Insert Origin/destination	-	0.00	0.00
10.1.1	Insert Origin/destination	-	0.00	0.00
10.1.2	Insert Origin/destination	-	0.00	0.00
10.2.1	Insert Origin/destination	-	0.00	0.00
11.1.1	Insert Origin/destination	-	0.00	0.00
11.1.2	Insert Origin/destination	-	0.00	0.00
11.2.1	Insert Origin/destination	-	0.00	0.00
12.1.1	Insert Origin/destination	-	0.00	0.00
13.1.1	Insert Origin/destination	-	0.00	0.00
13.1.2	Insert Origin/destination	-	0.00	0.00
13.2.1	Insert Origin/destination	-	0.00	0.00
14.1.1	Insert Origin/destination	-	0.00	0.00
14.1.2	Insert Origin/destination	-	0.00	0.00
14.2.1	Insert Origin/destination	-	0.00	0.00
15.1.1	Insert Origin/destination	-	0.00	0.00
15.1.2	Insert Origin/destination	-	0.00	0.00
15.1.3	Insert Origin/destination	-	0.00	0.00
15.1.4	Insert Origin/destination	-	0.00	0.00
15.1.5	Insert Origin/destination	-	0.00	0.00
15.1.6	Insert Origin/destination	-	0.00	0.00
15.2.1	Insert Origin/destination	-	0.00	0.00
15.2.2	Insert Origin/destination	-	0.00	0.00
15.2.3	Insert Origin/destination	-	0.00	0.00
15.2.4	Insert Origin/destination	-	0.00	0.00
15.2.5	Insert Origin/destination	-	0.00	0.00
15.2.6	Insert Origin/destination	-	0.00	0.00
16.1.1	Insert Origin/destination	-	0.00	0.00
16.1.2	Insert Origin/destination	-	0.00	0.00
16.1.3	Insert Origin/destination	-	0.00	0.00
16.2.1	Insert Origin/destination	-	0.00	0.00

17.1.1	Insert Origin/destination	-	0.00	0.00
<b>Total</b>				<b>0.00</b>



CLIN	Item Name	Item Description	Year	Currency	Unit Type	Quantity	Unit cost	Extended cost	Profit	Total Cost
Example. 1.1.1	Shipping	Shipping USA to BRU	2020	Euro (EUR)	Lot	2	3,000.00	6,000.00	300.00	6,300.00
1.1.1	Insert Other Direct Cost item							0.00	0.00	0.00
1.1.2	Insert Other Direct Cost item							0.00	0.00	0.00
1.1.3	Insert Other Direct Cost item							0.00	0.00	0.00
1.1.4	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.1	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.2	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.3	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.4	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.5	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.6	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.7	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.8	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.9	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.10	Insert Other Direct Cost item							0.00	0.00	0.00
1.2.11	Insert Other Direct Cost item							0.00	0.00	0.00
1.3.1	Insert Other Direct Cost item							0.00	0.00	0.00
1.3.2	Insert Other Direct Cost item							0.00	0.00	0.00
2.1.1	Insert Other Direct Cost item							0.00	0.00	0.00
2.1.2	Insert Other Direct Cost item							0.00	0.00	0.00
2.1.3	Insert Other Direct Cost item							0.00	0.00	0.00
2.1.4	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.1	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.2	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.3	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.4	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.5	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.6	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.7	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.8	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.9	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.10	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.11	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.12	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.13	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.14	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.15	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.16	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.17	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.18	Insert Other Direct Cost item							0.00	0.00	0.00
2.2.19	Insert Other Direct Cost item							0.00	0.00	0.00

2.2.20	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.21	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.22	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.23	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.24	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.25	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.26	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.27	Insert Other Direct Cost item	0.00	0.00	0.00
2.2.28	Insert Other Direct Cost item	0.00	0.00	0.00
2.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
2.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
3.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
3.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
3.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
3.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.6	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
3.2.11	Insert Other Direct Cost item	0.00	0.00	0.00
3.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
3.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
4.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
4.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
4.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
4.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.6	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
4.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
4.3.1	Insert Other Direct Cost item	0.00	0.00	0.00

4.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
5.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
5.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
5.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
5.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.6	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
5.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
5.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
5.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
6.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
6.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
6.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
6.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.6	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
6.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
6.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
6.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
7.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
7.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
7.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
7.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.6	Insert Other Direct Cost item	0.00	0.00	0.00

7.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.11	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.12	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.13	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.14	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.15	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.16	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.17	Insert Other Direct Cost item	0.00	0.00	0.00
7.2.18	Insert Other Direct Cost item	0.00	0.00	0.00
7.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
7.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
8.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.4.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.4.2	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.4.3	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.4.4	Insert Other Direct Cost item	0.00	0.00	0.00
8.2.4.5	Insert Other Direct Cost item	0.00	0.00	0.00
8.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
8.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
9.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
9.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
9.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
9.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.6	Insert Other Direct Cost item	0.00	0.00	0.00

9.2.7	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.8	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.9	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.10	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.11	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.12	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.13	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.14	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.15	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.16	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.17	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.18	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.19	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.20	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.21	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.22	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.23	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.24	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.25	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.26	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.27	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.28	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.29	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.30	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.31	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.32	Insert Other Direct Cost item	0.00	0.00	0.00
9.2.33	Insert Other Direct Cost item	0.00	0.00	0.00
9.3.1	Insert Other Direct Cost item	0.00	0.00	0.00
9.3.2	Insert Other Direct Cost item	0.00	0.00	0.00
10.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
10.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
10.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
11.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
11.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
11.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
12.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
13.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
13.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
13.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
14.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
14.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
14.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
15.1.1	Insert Other Direct Cost item	0.00	0.00	0.00

15.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
15.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
15.1.4	Insert Other Direct Cost item	0.00	0.00	0.00
15.1.5	Insert Other Direct Cost item	0.00	0.00	0.00
15.1.6	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.2	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.3	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.4	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.5	Insert Other Direct Cost item	0.00	0.00	0.00
15.2.6	Insert Other Direct Cost item	0.00	0.00	0.00
16.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
16.1.2	Insert Other Direct Cost item	0.00	0.00	0.00
16.1.3	Insert Other Direct Cost item	0.00	0.00	0.00
16.2.1	Insert Other Direct Cost item	0.00	0.00	0.00
17.1.1	Insert Other Direct Cost item	0.00	0.00	0.00
<b>Total</b>				<b>0.00</b>

Enter the name of the Rate here (G&A, Overhead, etc.)			Enter a rate description for non-standard rate categories	Enter the rate percentage
Rate Name	Rate description*	Percentage		
[Insert Rate Name]		0%		
[Insert Rate Name]		0%		
[Insert Rate Name]		0%		

**\*Note: rate description only needed if this is a rate not included in the list below:**

- Overhead
- Fringe
- General & Administrative
- Material Handling
- Profit- Labour
- Profit- Material

<b>EXAMPLE ONLY:</b>		
Name of Rate	Rate description	
Fringe		2%
Overhead		2%
G&A		2%
ABC rate (company specific)	In the case of non-standard rates include a description	x%

**Instructions:**

Although the rates in this tab do not need to be linked to calculations for purposes of the bid, it is required that Bidders list any and all rates included in their bid to include (but not limited to): Overhead, Labour Fringe, Material handling, General & Administrative, Profit, etc.

<b>EXAMPLE ONLY:</b>		<b>Fully burdened daily rate</b>			
<b>Labour Category</b>	<b>Currency</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
Project Manager	Euro (EUR)	----	----	----	----
Lead Engineer	Euro (EUR)	----	----	----	----
QA Engineer	Euro (EUR)	----	----	----	----
Senior Engineer	Euro (EUR)	----	----	----	----
Junior Engineer	Euro (EUR)	----	----	----	----
Sr Principal Analyst, Program	Euro (EUR)	----	----	----	----
Analyst, Program	Euro (EUR)	----	----	----	----
Sr Principal Engineer, Systems	Euro (EUR)	----	----	----	----
Principal Analyst, Program	Euro (EUR)	----	----	----	----
----	Euro (EUR)	----	----	----	----
----	Euro (EUR)	----	----	----	----
----	Euro (EUR)	----	----	----	----

NATO UNCLASSIFIED



**RFQ-CO-115268-AFAP**

**BOOK II - PART II**  
**CONTRACT SPECIAL PROVISIONS**

NATO UNCLASSIFIED



CONTRACT SPECIAL PROVISIONS

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**ARTICLE 1 SCOPE**

- 1.1 The scope of this Contract is to provide a Structured Cabling System, also referred to as the Passive Network Infrastructure (PNWI) into specialized technical areas in the refurbished NCI Agency building in The Hague (The Netherlands) as specified in the Schedule of Supplies and Services (SSS) and in accordance with the Statement of Work (SOW) for the firm fixed prices stated in this Contract.
- 1.2 The Agreement and Acceptance of this Contract by the Parties neither implies an obligation on either part to extend the Contract beyond the specified scope or terms, nor to prohibit the Parties from mutually negotiating modifications thereto.

**ARTICLE 2 ALTERATIONS, MODIFICATIONS AND DELETIONS OF THE BOA GENERAL PROVISIONS**

- 2.1 Clause 15 – “Order of Precedence” of the BOA General Provisions is replaced by ARTICLE 3 – “Order of Precedence” of these Contract Special Provisions
- 2.2 Clause 27 – “Security” of the BOA General Provisions is supplemented by ARTICLE 14 – “Security” of these Contract Special Provisions.

**ARTICLE 3 ORDER OF PRECEDENCE**

- 3.1 In the event of any inconsistency in this Contract, the inconsistency shall be resolved by giving precedence in the following order:
  - a. Signature sheet
  - b. Part I - The Schedule of Supplies and Services
  - c. Part II - The Contract Special Provisions
  - d. Part III – NCI Agency – BOA General Provisions
  - e. Part IV – The Statement of Work
  - f. The Contractor’s Offer

**ARTICLE 4 DURATION OF CONTRACT**

- 4.1 The work under the Contract shall commence on effective date of Contract shown on the signature page and be completed in accordance with the Schedule of Supplies and Services (SSS) and Statement of Work (SOW).

**ARTICLE 5 PRICE BASIS**

- 5.1 This is a Firm Fixed Price Contract. Firm Fixed Prices are established for the supplies and services defined in the Schedule of Supplies and Services.
- 5.2 The Purchaser assumes no liability for costs incurred by the Contractor in excess of the stated Firm Fixed Price except as provided under other provisions of this Contract.
- 5.3 The Total Contract price is inclusive of all expenses related to the performance of the present contract.

- 5.4 The Total Contract price in this Contract is Delivered Duty Paid (INCOTERMS 2010).

**ARTICLE 6 ADDITIONAL CONTRACT TASKS AND OPTIONS**

- 6.1 The tasks identified in the Contract Schedule of Supplies and Services as Options (if any) are to be intended as options to be exercised by the Purchaser and at its sole discretion. The Purchaser shall have the right to exercise any of the listed priced options at its discretion any time during the performance of the Contract and up to its conclusion at the unit prices listed in the Schedule of Supplies and Services.
- 6.2 Should any options be exercised, the Purchaser will increase the firm fixed price of the Contract via a formal Contract Amendment by the amount of the line items so exercised and the period of performance of the Contract will be extended as mutually agreed and when necessary.
- 6.3 In no event shall the Contractor engage in the performance of any options or part thereof without the written consent of the Purchaser Contracting Authority.
- 6.4 In addition to the specific Contract options as identified above, the Purchaser reserves the right to order any foreseeable or additional Contract tasks or deliverables, listed or not, either occasionally or at a further stage in the life of the project, which he deems necessary for the successful completion of the project. The additional tasks and/or deliverables shall be priced in using the "Summary Price" rates provided by the Contractor as part of his proposal and included in this Contract by reference.
- 6.5 Except as otherwise provided for in this Contract, Contractor's price quotations for contract changes or modifications shall be provided at no cost to the Purchaser and shall have a minimum validity period of three (3) months from submission.
- 6.6 The Purchaser may, in writing, place an order for such additional tasks throughout the entire Contract period. Such an order may be placed within the framework of this Contract via the issuance of a Contract Amendment or be formulated via the issuance of a new contractual instrument.

**ARTICLE 7 PARTICIPATING COUNTRIES**

- 7.1 The Contractor may issue subcontracts to firms and purchase from qualified vendors in any of the 30 NATO Member Nations, namely, (in alphabetical order): ALBANIA, BELGIUM, BULGARIA, CANADA, CROATIA, CZECH REPUBLIC, DENMARK, ESTONIA, FRANCE, GERMANY, GREECE, HUNGARY, ICELAND, ITALY, LATVIA, LITHUANIA, LUXEMBOURG, MONTENEGRO, THE NETHERLANDS, NORTH MACEDONIA, NORWAY, POLAND, PORTUGAL, ROMANIA, SLOVAKIA, SLOVENIA, SPAIN, TURKEY, THE UNITED KINGDOM and THE UNITED STATES.
- 7.2 None of the work, including project design, labor and services, shall be performed other than by firms from and within NATO Member Nations. No material or items of equipment down to and including identifiable sub-

assemblies shall be manufactured or assembled by a firm other than from and within a NATO Member Nation.

- 7.3** No material or items of equipment down to and including identifiable sub-assemblies shall be manufactured or assembled by a firm other than from and within a NATO Member Nation.
- 7.4** The Intellectual Property Rights for all software and documentation used by the Contractor in the performance of the Contract shall vest with firms from and within NATO member nations and no royalties or license fees for such software and documentation shall be paid by the Contractor to any source that does not reside within a NATO Member Nation.

## **ARTICLE 8 COMPREHENSION OF CONTRACT AND SPECIFICATIONS**

- 8.1** The Contractor warrants that he has read, understood and agreed to each and all terms, clauses, specifications and conditions specified in the Contract and that this signature of the Contract is an acceptance, without reservations, of the said Contract terms within their normal and common meaning.
- 8.2** The specifications set forth the performance requirements for the Contractor's proposed work as called for under this Contract. Accordingly, notwithstanding any conflict or inconsistency which hereafter may be found between achievement of the aforesaid performance requirements and adherence to the Contractor's proposed design for the work, the Contractor hereby warrants that the work to be delivered will meet or exceed the performance requirements of the said specifications.
- 8.3** The Contractor hereby acknowledges that he has no right to assert against the Purchaser, its officers, agents or employees, any claims or demands with respect to the aforesaid specifications as are in effect on the date of award of this Contract.
- a. Based upon impossibility of performance, defective, inaccurate, impracticable, insufficient or invalid specifications, implied warranties of suitability of such specifications, or
  - b. Otherwise derived from the aforesaid specifications, and hereby waives any claims or demands so based or derived as might otherwise arise.
- 8.4** Notwithstanding the "Changes" Clause of the Contract General Provisions or any other clause of the Contract, the Contractor hereby agrees that no changes to the aforesaid specifications which may be necessary to permit achievement of the performance requirements specified herein for the Contractor's proposed work shall entitle the Contractor either to any increase in the firm fixed price as set forth in this Contract or to any extension of the delivery times for the work beyond the period of performance in the Schedule of Supplies and Services.

## **ARTICLE 9 PLACE AND TERMS OF DELIVERY**

- 9.1** Deliverables under this Contract shall be delivered DDP (Delivered Duty Paid) in accordance with the International Chamber of Commerce INCOTERMS 2010 to the destination(s) and at such times as set forth in the Schedule of Supplies and Services.

**ARTICLE 10      WARRANTY**

**10.1** The duration of the warranty provided by the Contractor and its Subcontractors for the installation and all supplies procured under this Contract shall be twelve (12) months from the date of Acceptance under this Contract as notified in writing by the Contracting Authority.

**ARTICLE 11      INVOICES AND PAYMENT**

**11.1** Following Purchaser acceptance, in writing, payment for supplies and services furnished shall be made in the currency specified for the relevant portion of the Contract.

**11.2** The term of the Contract may not be exceeded without prior approval of the Purchaser. In no case will the Purchaser make payment above the total of the corresponding CLINs.

**11.3** Invoices in respect of any service and/or deliverable shall be prepared and submitted as specified hereafter and shall contain:

- a) Contract number CO-115268-AFAP,
- b) Contract Amendment number (if any),
- c) Purchase Order number PO [...],
- d) The identification of the performance rendered in terms of Contract Line Item Number (CLIN),
- e) Bank account details for international wire transfers (SWIFT, BIC, IBAN, ...)

**11.4** The Contractor shall be entitled to submit invoices in accordance with the following payment events schedule:

Payment	Milestone	Amount
CLIN 1 through 9	Written Final Acceptance of all deliverables and works by the Purchaser	100%
[Option] CLIN 10 through 17	Written Final Acceptance of all deliverables and works by the Purchaser	100%

**11.5** The invoice amount shall be exclusive of VAT and exclusive of all Taxes and Duties as per Clause 26 "Taxes and Duties" of the Contract General Provisions.

**11.6** No payment shall be made with respect to undelivered supplies; works not performed, services not rendered and/or incorrectly submitted invoices.

**11.7** No payment shall be made for additional items delivered that are not specified in the contractual document.

**11.8** Payments for services and deliverables shall be made in the currency stated by the Contractor for the relevant Contract Line Item.

- 11.9 The Purchaser is released from paying any interest resulting from any reason whatsoever.
- 11.10 The invoice shall contain the following certificate:  
*“I certify that the above invoice is true and correct, that the delivery of the above described items has been duly effected and/or that the above mentioned services have been rendered and the payment therefore has not been received.”*
- 11.11 The certificate shall be signed by a duly authorised company official on the designated original.
- 11.12 Invoices referencing “CO-115268-AFAP / PO [...]” shall be sent to:  
[accountspayable@ncia.nato.int](mailto:accountspayable@ncia.nato.int)
- 11.13 NCI Agency will make payment within 45 days of receipt by the NCI Agency of a properly prepared and documented invoice.

**ARTICLE 12 SUPPLEMENTAL AGREEMENTS, DOCUMENTS AND PERMISSIONS**

- 12.1 The Contractor has submitted all relevant draft supplemental agreement(s), documents and permissions prior to Contract award, the execution of which by the Purchaser is/are required by national law or regulation. If any supplemental agreements, documents and permissions are introduced after Contract award, and it is determined that the Contractor failed to disclose the requirement for the execution of such agreement from the Purchaser prior to Contract signature, the Purchaser may terminate this Contract for Default, in accordance with the Clause 39 “Termination for Default” of the Contract General Provisions.
- 12.2 Supplemental agreement(s), documents and permissions, the execution of which by the Purchaser is/are required by national law or regulation and that have been identified by the Contractor prior to the signature of this Contract, but have not yet been finalized and issued by the appropriate governmental authority, are subject to review by the Purchaser. If such supplemental agreement(s), documents and permissions are contrary to cardinal conditions of the signed Contract between the Parties, and the Purchaser and the appropriate governmental authority cannot reach a mutual satisfactory resolution of the contradictions, the Purchaser reserves the right to terminate this Contract and the Parties agree that in such case the Parties mutually release each other from claim for damages and costs of any kind, and any payments received by the Contractor from the Purchaser will be refunded to the Purchaser by the Contractor. For the purpose of this Contract the following National mandatory Supplemental Agreements are identified:

Type of Agreement	National Authority of Reference	Subject

**ARTICLE 13      CONTRACT ADMINISTRATION**

- 13.1** The Purchaser reserves the right to re-assign this contract to a representative(s) for administrative purposes, in whole or in part, provided that the Purchaser shall always be responsible for his obligations under the contract and for actions or lack of actions of its assigned administrator. The Purchaser undertakes to advise the Contractor in writing whenever this right is to be exercised.
- 13.2** All notices and communications between the Contractor and the Purchaser shall be written and conducted in the English language. Contract modifications shall only be valid when received in writing from the General Manager, NCI Agency, and/or the NCI Agency Contracting Authority.
- 13.3** Formal letters and communications shall subsequently be personally delivered or sent by mail, registered mail, courier or other delivery service, to the official points of contact quoted in this Contract. Facsimile and e-mail may be used to provide an advance copy of a formal letter or notice which shall subsequently be delivered through the formal communication means.
- 13.4** Informal notices and informal communications may be exchanged by all communication means, including telephone and e-mail. All informal communication must be confirmed by a formal letter or other formal communication to be contractually binding.
- 13.5** All notices and communications shall be effective on receipt.
- 13.6** Official Points of Contact:

Purchaser	Contractor
NATO Communications and Information Agency NATO HQ Boulevard Leopold III B-1110 Brussels, Belgium	
For contractual matters:  Attn: Ms. Ijeoma Ike-Meertens, Senior Contracting Officer Tel: +31 70 374 3174 E-mail: ijeoma.ikemeertens@ncia.nato.int	For contractual matters:  Attn: Tel: E-mail:
For technical/project management matters:  Attn: Tel: E-mail:	For technical/project management matters:  Attn: Tel: E-mail:

or to such address as the Purchaser may from time to time designate in writing.

**ARTICLE 14 SECURITY**

- 14.1** This Article supplements Clause 11 “Security” of the BOA General Provisions.
- 14.2** The security classification of this Contract is “NATO UNCLASSIFIED”.
- 14.3** Contractor and /or Subcontractor personnel employed under this Contract will require access to locations, such as sites and headquarters, where classified material and information up to and including “NATO SECRET” are handled and shall be required to have a NATO security clearance up to this level.
- 14.4** All NATO classified material entrusted to the Contractor under the Prospective Contract shall be handled and safeguarded in accordance with applicable security regulations.
- 14.5** In the performance of all works under this Contract it shall be the Contractor’s responsibility to ascertain and comply with all applicable NATO and National security regulations as implemented by the Purchaser and by the local authorities.
- 14.6** It shall be the Contractor’s responsibility to obtain the appropriate personnel clearances to the levels stated in the preceding paragraphs and to have such clearances confirmed to the Purchaser by the relevant National security authority for the duration of the Contract in its entirety.
- 14.7** Failure to obtain or maintain the required level of security for Contractor personnel for the period of performance of this Contract shall not be grounds for any delay in the scheduled performance of this Contract and may be grounds for termination under Clause 19 (Termination for Default) of the BOA General Provisions.
- 14.8** The Contractor shall note that there are restrictions regarding the carriage and use of electronic device (e.g. laptops) in Purchaser secured locations. The Contractor shall be responsible for satisfying and obtaining from the appropriate site authorities the necessary clearance to bring any such equipment into the facility.

**ARTICLE 15 LIQUIDATED DAMAGES**

- 15.1** If the Contractor fails to meet the delivery schedule of the items required under this contract at the times specified in the Delivery Schedule of this Contract, or any agreed extension thereto, the actual damage to the Purchaser for the delay will be difficult or impossible to determine. Therefore, in lieu of actual damages, the Contractor shall pay to the Purchaser fixed and agreed liquidated damages of 0.1% (one tenth of one percent) of the associated Delivery Order / CLIN value as set forth in the Schedule of Supplies and Services herein, for each day of delinquency in achieving the milestone. These liquidated damages will begin to accrue on the first day after the date on which delivery was required and/or the milestone was to have been reached.
- 15.2** In addition, the Purchaser may terminate this contract in whole or in part as provided in Clause 19 (“Termination for Default”) of the BOA General Provisions. In the event of such a termination, the Contractor shall be liable for Liquidated Damages accruing to the date of termination, as well as the excess costs stated in the referred clause.



- 15.3** The Contractor shall not be charged with liquidated damages when the delay arises out of causes beyond the control and without the fault or negligence of the Contractor as defined in Clause 19 of the BOA General Provisions. In such event, subject to the provisions of the Disputes and Arbitration Clause, the Purchaser shall ascertain the facts and extent of the delay and shall extend the time for performance of the contract when in his judgement the findings of fact justify an extension.
- 15.4** Liquidated damages shall be payable to the Purchaser from the first day of delinquency in delivery and shall accrue at the rate specified in paragraphs above to a maximum of Ten Percent (10%) of the applicable payment for the line item in the Schedule of Supplies. Cumulative assessed Liquidated Damages will not exceed a total of Ten Percent (10%) of the total value of the Contract.
- 15.5** The amount of Liquidated Damages due by the Contractor shall be recovered by the Purchaser in the following order of priority:
- a. By deducting such damages from the amounts due to the Contractor against the Contractor's invoices.
  - b. By proceeding against any surety or deducting from the Performance Guarantee if any.
  - c. By reclaiming such damages through appropriate legal remedies.

**ARTICLE 16 INDEMNITY**

- 16.1** The Contractor will indemnify and hold harmless NATO, its servants or agents, against any liability, loss or damage arising out of or in connection of the Deliverables and Services under this Contract.
- 16.2** The parties will indemnify each other against claims made against the other by their own personnel, and their sub-Contractors (including their personal representatives) in respect of personal injury or death of such personnel or loss or destruction of or damage to the property of such personnel.
- 16.3** NATO will give the Contractor immediate notice of the making of any claim or the bringing of any action to which the provisions of this Article may be relevant and will consult with the Contractor over the handling of any such claim and conduct of any such action and will not without prior consultation and without the consent of the Contractor settle or compromise any such claim or action.
- 16.4** In the event of an accident resulting in loss, damage, injury or death arising from negligence or willful intent of an agent, officer or employee of NATO for which the risk has been assumed by the Contractor, the cause of the accidents will be investigated jointly by the Parties and the extent to which NATO will be liable to recompense the Contractor will be determined together.

**ARTICLE 17 TECHNICAL DIRECTION**

- 17.1** At the site of efforts, the Purchaser may assign Technical Representatives who will monitor work in progress and provide Contractor personnel with instruction and guidance (within the general scope of work) in performance of their duties and working schedule. The Technical Representatives do not have the authority

to change the terms of the Contract or to increase the overall cost, duration or level of effort of the Contract. The Technical Representatives do have the authority, within the general scope of work, to provide direction to the Contractor personnel in performance of their duties.

- 17.2** In case the Contractor believes that any technical direction received from the Technical Representative constitutes a change to the terms, conditions and/or specifications of the Contract, he shall immediately inform in writing the Purchaser Contracting Authority, who will either confirm or revoke such direction. If such direction is confirmed as a change, this change will be formalized by written amendment to the Contract pursuant to Clause 16 "Changes" of the Contract General Provisions.
- 17.3** Failure of the Contractor to notify the Purchaser Contracting Authority of direction constituting change of the Contract will result in a waiver of any claims pursuant to such change.

**ARTICLE 18 CARE AND DILIGENCE OF PROPERTY**

- 18.1** The Contractor shall use reasonable care to avoid damaging buildings, walls, equipment and vegetation (such as trees, shrubs and grass) on the work site. If the Contractor damages any such buildings, walls, equipment or vegetation, he shall repair the damage as directed by the Purchaser and at no expenses to the Purchaser. If he fails or refuses to make such repair or replacement, the Contractor shall be liable for the cost thereof, which may be deducted from the Contract price.
- 18.2** The Purchaser shall exercise due care and diligence for Contractor's furnished equipment, tools and materials on site premises. The Purchaser will not assume any liability except for gross negligence and willful misconduct on the part of the Purchaser's personnel or agents.
- 18.3** The Contractor shall, at all times, keep the site area, including storage areas used by the Contractor, free from accumulations of waste. On completion of all work the Contractor is to leave the site area and its surroundings in a clean and neat condition.

**ARTICLE 19 INDEPENDENT CONTRACTOR**

- 19.1** The Personnel provided by the Contractor in response to this contract are at all times employees of the Contractor and not the Purchaser. In no case shall Contractor personnel act on behalf of or as an agent for NATO or any of its bodies. In no way shall the Contractor personnel claim directly or indirectly to represent NATO in an official capacity or claim themselves to be NATO employees.

**ARTICLE 20 APPLICABLE REGULATIONS**

- 20.1** The Contractor shall be responsible for obtaining permits or licenses to comply with national codes, laws and regulations or local rules and practices in the country of performance under this Contract.

- 20.2** The Contractor shall take any necessary measure to protect the life and health of persons working or visiting the work area occupied by him. These measures include compliance with the country of performance's safety provisions.
- 20.3** In the performance of all work under this Contract, it shall be the Contractor's responsibility to ascertain and comply with all applicable NATO security regulations as implemented by the local Headquarters' Security Officer.

**ARTICLE 21            RESPONSIBILITY OF THE CONTRACTOR TO INFORM  
EMPLOYEES OF WORK ENVIRONMENT**

- 21.1** The Contractor shall inform his employees under this Contract of the terms of the Contract and the conditions of the working environment.
- 21.2** Specifically, Contractor personnel shall be made aware of all risks associated with the performance under this Contract, the conditions of site in which the performance is to take place and living conditions while performing within the boundaries of the Contract.
- 21.3** The selection of adequate personnel shall remain sole responsibility of the Contractor.

**ARTICLE 22            TRANSPORTATION OF EQUIPMENT**

- 22.1** All supplies covered under this Contract shall be transported to final destination at the responsibility of the Contractor. The Purchaser shall not be liable for any storage, damage, accessorial or any other charges involved in such transporting of supplies.
- 22.2** Items shipped under Warranty for repair or otherwise from the NCI Agency (The Hague) to the Contractor shall be the responsibility of the Purchaser.
- 22.3** Transportation of repaired/replaced items shall be the responsibility of the Contractor. These items shall be delivered and installed at final destination.

**ARTICLE 23            PURCHASER USE OF THIRD PARTIES**

- 23.1** The Contractor shall be aware of the possible presence of third parties who perform work which contributes to, or is strongly related to, work conducted under this Project.
- 23.2** The Contractor shall work closely with and participate in meetings and reviews to be held jointly with these third parties.
- 23.3** The Contractor undertakes to make the best effort in producing plans and technical agreements that could be commonly agreed by all participants to the Project. The Contractor shall have no rights to raise claims, ask for delays or interrupt the performance of the contract on the basis of, or in connection with, the presence of third parties running parallel work on or related to this Project.

**ARTICLE 24            INSURANCES**

- 24.1** The Contractor is responsible for providing the necessary insurance for the personnel provided by the Contractor and the equipment as needed on the site and for the performance of the Contract for its entire duration.

**ARTICLE 25 CONFLICT OF INTEREST**

- 25.1** A conflict of interest means that because of other activities or relationships with other persons or entities, a Contractor is unable, or potentially unable to render impartial assistance or advice to the Purchaser, or the Contractor's objectivity in performing the Contract work is, or might be otherwise impaired, or the Contractor has an unfair competitive advantage. Conflict of interest includes situations where the capacity of a Contractor (including the Contractor's executives, directors, consultants, subsidiaries, parent companies or subcontractors) to give impartial, technically sound advice or objective performance is or may be impaired or may otherwise result in a biased work product or performance because of any past, present or planned interest, financial or otherwise in organizations whose interest may substantially affected or be substantially affected by the Contractor's performance under the Contract.
- 25.2** The Contractor is responsible for maintaining and providing up-to-date conflict of interest information to the Purchaser. If, after award of this Contract, the Contractor discovers a conflict of interest with respect to this Contract which could not reasonably have been known prior to award, or if any additional conflicts or potential conflicts arise after award, the Contractor shall give written notice to the Purchaser as set forth below.
- 25.3** If, after award of this Contract, the Purchaser discovers a conflict of interest with respect to this Contract, which has not been disclosed by the Contractor, the Purchaser may at its sole discretion request additional information from the Contractor, impose mitigation measures, or terminate the Contract for default in accordance with Clause 19 of the BOA General Provisions.

**NATO UNCLASSIFIED**

GENERIC BASIC ORDERING AGREEMENT

NCIA/BOA Between

NATO COMMUNICATIONS AND INFORMATION

ORGANISATION

Represented by

THE GENERAL MANAGER, NATO C&I AGENCY

And

| COMPANY |

For

| PRODUCTS & SERVICES |

**NATO UNCLASSIFIED**

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**BASIC ORDERING AGREEMENT WITH NCIA**

COMPANY NAME ("Company") and NATO COMMUNICATIONS AND INFORMATION AGENCY represented by the General Manager NATO C&I Agency ("NCIA") agree that the Terms and Conditions contained in this Agreement ("Agreement"), shall govern the sale or licensing of Products and Engineering Services (as later defined) ordered under this Agreement.

"Company" has entered into this Agreement for and on behalf of itself. The geographic scope of this Agreement shall extend to member countries of the North Atlantic Treaty: Albania, Belgium, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Turkey, United Kingdom, United States of America.

This Agreement establishes the Terms and Conditions under which Products and Engineering Services may be sold or licensed to Eligible Purchasers (as later defined), but does not obligate "Company" to sell or license or Eligible Purchasers to buy or license any Product or Engineering Service. The following Sections and Exhibits contained in the Agreement form an integral part thereof.

- Part I -- Special Provisions
- Part II -- General Provisions
- Appendix 1 to Part II -- Purchaser's Pricing Principles
- Exhibit A -- Ordering Information
- Exhibit B -- Authorisation to use BOA by NATO Contractors
- Exhibit C -- Products and Services

"Company" and NCIA have read this Agreement, understand it, and agree to be bound by its Terms and Conditions. NCIA and "Company" further agree that this Agreement constitutes the entire agreement between the Parties with respect to its subject matter and supersedes all prior proposals, negotiations, and communications, oral and written between the Parties or their representatives. Deviations from this Agreement shall be binding only when mutually agreed in writing by the Authorised Representatives of NCIA and "Company".

Orders placed referencing this Agreement are subject exclusively to its terms which may only be amended or supplemented by written agreement of "Company" and Eligible Purchasers.

NATO C&I AGENCY  
Boulevard Leopold III  
B-1110 Brussels  
Belgium

COMPANY  
ADDRESS  
ADDRESS

\_\_\_\_\_  
Title: Principal Contracting Officer  
Date:

\_\_\_\_\_  
Title: \_\_\_\_\_  
Date:

EFFECTIVE DATE: \_\_\_\_\_



## PART I - SPECIAL PROVISIONS

### 1. TERM

- 1.1 This Agreement is effective for an Initial Term of one (1) year from the Effective Date which is given on page 1. Thereafter, it will continue unless and until one Party gives to the other a written thirty (30) day notice of its intention to terminate.
- 1.2 Any expiration or termination of this Agreement will not alter the rights, duties and obligations of "Company" or Purchaser, or any discounts granted, for any Orders accepted by "Company" under this Agreement prior to the date of expiration or termination of the Agreement.

### 2. DEFINITIONS

- 2.1 "Authorised Representative of "Company"" means | please specify position. |
- 2.2 "Authorised Representative of NATO, NATO Body or NATO Member Nation" means the General Manager, Deputy General Manager or Chief of Contracts of NCIA and any designated representative of an Eligible Purchaser.
- 2.3 "Authorised Representative of NCIA" means the General Manager, Deputy General Manager or Chief of Contracts.
- 2.4 "Contractor" means any entity working on a project for any Eligible Purchaser.
- 2.5 "Effective Date" is the date specified on the signature page when the Initial Term of this Agreement begins.
- 2.6 "Eligible Purchaser" or "Purchaser" means the entity identified in 3.0 below which may benefit of the Terms and Conditions of this agreement, if they express so in any subsequent agreement between them and "Company".
- 2.7 "Engineering Services" means professional services which members of the engineering/computer science profession may logically perform including studies, investigations, test, evaluations, consultations, comprehensive planning, program management, conceptual designs, plans and specifications and preparation of operating and maintenance manuals.
- 2.8 "Governmental Agency" means any governmental agency, including military forces, of a NATO Member Nation.
- 2.9 "Member Nation" means any of the 28 Member Nations of NATO.
- 2.10 "NATO" means the North Atlantic Treaty Organisation.

- 2.11 "NATO Body" means any entity created by the North Atlantic Council (or Defence Planning Committee) and to which either the Agreement on the Status of the North Atlantic Treaty Organisation, National Representatives and International Staff (20 September 1951) or the Protocol on the Status of International Military Headquarters set up pursuant to the North Atlantic Treaty (28th August 1952) applies.
- 2.12 "Order" means any instrument/document, e.g. Purchase Order or Task Order, used for the procuring of Products and/or Engineering Services under this Agreement.
- 2.12.1 "Purchase Order" means any agreement concluded between the Purchaser and "Company".
- 2.12.2 "Task Order" means any instrument, in the form of a statement of work to be performed by "Company", as concluded between the Purchaser and "Company".
- 2.13 "Parties" means NCIA and "Company".
- 2.14 "Partnership for Peace (PfP) Countries" means those countries who are signatories to the Partnership for Peace Agreement dated 10 January 1994.
- 2.15 "Products" means Equipment, Software and related Goods and Services, including but not limiting to Training and Documentation.
- 2.15.1 "Equipment" shall mean the hardware components of Products.
- 2.15.2 "Software" shall mean each software program provided by "Company" in machine readable, object, printed or interpreted form.
- 2.16 "Standard Terms and Conditions" are the Terms and Conditions contained in this Agreement.
- 2.17 "Sub-contract" means any Agreement, Contract or Order made by "Company" with any other party in order to fulfil any part of an Order.
- 2.18 "Sub-contractor" means any party directly or indirectly under a "sub-contract".

### **3. ELIGIBLE PURCHASERS**

- 3.1 The following entities are eligible to reference and use the terms and conditions of this Agreement, subject to the provisions specified in paragraph 4 below:
- 3.1.1 NCIA
- 3.1.2 NATO Bodies
- 3.1.3 Governmental Agencies of NATO Member Nations as per 2.8 above
- 3.1.4 Contractors performing work on behalf of the categories mentioned in 3.1.1, 3.1.2 and 3.1.3 above.

- 3.2 Partnership for Peace Countries may be eligible to the Terms and Conditions of this Agreement, subject to a case-by-case agreement between NCIA and "Company".

#### **4. ORDERING PROCEDURE**

- 4.1 All Orders under this Agreement shall contain, as a minimum, the information detailed in Exhibit A, and shall be subject to acceptance by "Company".
  - 4.1.1 Orders may be placed with "Company" for the Products and/or Engineering Services identified on Exhibit C. Orders may be placed hereunder for Products and/or Engineering Services not included herein, subject to determination of availability and price by "Company".
  - 4.1.2 "Company" accepts that NCIA shall not be liable in any form for any Order issued and concluded between a Purchaser, other than by NCIA itself, and "Company".
- 4.2 In the case of the Purchaser being a Governmental Agency or a Contractor performing work on behalf of NATO, NATO Bodies or NATO Member Nations, "Company" may request the Authorised Representative of NATO, NATO Bodies or NATO Member Nations, to verify that the Purchaser is eligible to use the Agreement.
- 4.3 Assignment: Authorised Representatives of NATO, NATO Bodies or NATO Member Nations may assign Orders at their discretion provided there is no further change to the terms of the Order, especially as regards payment. "Company" reserves the right to approve any assignment.
- 4.4 In the case of the Purchaser being a Contractor, "Company" may request the Authorised Representative of NCIA or Eligible Purchaser to verify that the Contractor is in fact performing work on a project or for an Eligible Purchaser of a NATO Member Nation and that the Products and/or Engineering Services are required for such purpose and the Authorised Representative of Eligible Purchaser shall provide such verification in the form of Exhibit B.

#### **5. DELIVERY**

- 5.1 "Company" is authorised to accelerate the Requested Products Delivery Schedule or to complete the Performance of each Order issued hereunder prior to the time set forth therein, provided, however that nothing contained herein, or in any said Order obligates the Purchaser to perform any of its obligations at an earlier date than would otherwise be the case.

**6. PRICES**

- 6.1 All Products prices shall be quoted as firm prices and all Engineering Services' prices shall be quoted as firm rates per particular time units by labour category in accordance with Exhibit C pricing practices as disclosed and agreed to by NCIA or any other Eligible Purchaser.
- 6.2 All Product prices are quoted CIF Destination and all Product shipments and deliveries shall be effected on this basis, notwithstanding any other provision of this Agreement or order placed hereunder.

**7. WARRANTY**

- 7.1 Hardware Warranty. Unless otherwise agreed between the Purchaser and "Company", or as otherwise specified, "Company" warrants its Equipment against defects in workmanship of materials for one (1) year from the date of either shipment or "Company"-performed installation. The Purchaser should return the Equipment in "Company" packaging and bear the cost of outbound carriage. "Company" will carry out and repair and bear the cost of return carriage to the Purchaser. The repaired unit will be shipped within a maximum of | *specify period* | working days from the receipt at the repair facility, or as otherwise specified and agreed in the Order.
- 7.2 Software Warranty. "Company" warrants that the licensed Software shall substantially conform to its user's manual, as it exists at the date of delivery, for ninety (90) days from the date of shipment.

**8. PAYMENTS**

- 8.1 Valid invoices (properly supported and certified) may be submitted to the Purchaser upon acceptance and payment will be made within 45 days from receipt of such invoices, unless otherwise agreed between "Company" and the Purchaser. The payment terms for Engineering Services shall be specified on each Task Order.
- 8.2 Payment of invoices shall be made to the address shown below:

|COMPANY

Attn.:

For Electronic Funds Transfer:

Account Name:

Bank Name

Account Number:

ABA/SWIFT Number/Sort Code: |

## 9. SUPPLEMENTAL AGREEMENTS

- 9.1 The Contractor has submitted all relevant draft supplemental agreement(s), documents and permissions prior to contract award, the execution of which by the Purchaser is/are required by national law or regulation. If any supplemental agreements, documents and permissions are introduced after contract award, and it is determined that the Contractor failed to disclose the requirement for the execution of such agreement from the Purchaser prior to contract signature, the Purchaser may terminate this contract for Default, in accordance with Clause 19 of N CIA Basic Ordering Agreement, General Provisions.
- 9.2 Supplemental agreement(s), documents and permissions, the execution of which by the Purchaser is/are required by national law or regulation and that have been identified by the Contractor prior to the signature of this contract, but have not yet been finalised and issued by the appropriate governmental authority, are subject to review by the Purchaser. If such supplemental agreement(s), documents and permissions are contrary to cardinal conditions of the signed contract between the Parties, and the Purchaser and the appropriate governmental authority can not reach a mutual satisfactory resolution of the contradictions, the Purchaser reserves the right to terminate this contract and the Parties agree that in such case the Parties mutually release each other from claim for damages and costs of any kind, and any payments received by the Contractor from the Purchaser will be refunded to the Purchaser by the Contractor.

## 10. MISCELLANEOUS

- 10.1 Failure by either Party to enforce any provision shall not be deemed a waiver of future enforcement of that or any other provision. In the event that any portion or provision of this Agreement shall be held unenforceable or one is declared void, the remaining portions and/or provisions of this Agreement shall remain in full force and effect.
- 10.2 "Company" may re-assign any Order under this Agreement to a third party after prior written approval by Purchaser, which will not be unreasonably withheld. "Company" or his legal successor shall always be responsible for his obligations under this Agreement and for actions of his assigned representatives.
- 10.3 "Company" may sub-contract its responsibilities in relation to this Agreement with the understanding that "Company" shall remain responsible for all obligations under this Agreement.
- 10.4 Purchaser shall have the right to take possession of and to use any partial delivery of an Order for Products and such possession or use shall not of itself constitute acceptance of the Products.
- 10.5 All formal communications as required and specified in the clauses of Part II of this Agreement shall be given by receipted personal delivery or by recorded delivery or registered post, with postage prepaid. The addresses

and nominated personnel of the Parties (until change of notice shall be given) shall be as follows:

Company:

Name:  
Title:  
Department:  
Address:  
Tel:  
Fax:  
e-mail: |

NCIA: Mr. Alain Courtois  
Chief of Contracts- Principal Contracting Officer,  
NATO C&I Agency  
Boulevard Leopold III  
B-1110 Brussels  
Belgium  
Tel: +32 2 707 8233  
E-Mail: [Alain.Courtois@ncia.nato.int](mailto:Alain.Courtois@ncia.nato.int)

## PART II - GENERAL PROVISIONS

### 1. NOTICE OF SHIPMENT

- 1.1 "Company" shall, as appropriate and prior to the delivery of any shipment, give notice of shipment to the Purchaser and to such other persons as may reasonably be designated by the Purchaser. Unless otherwise specified by the Purchaser, delivery will be made to the address specified in the country of purchase on Purchaser's Order. The scheduled delivery date shall be that date acknowledged by "Company". "Company" shall consider any date requested by the Purchaser.
- 1.2 The Notice of Shipment shall contain, as appropriate, the request for Customs Form 302, or equivalent document, which shall enable any carrier to effect duty free import/export clearance through customs for the Purchaser on behalf of NATO. The Form 302 is an official Customs Clearance Declaration issued in advance of shipment to provide certified information as to the import/export, or transit of NATO Member Nations.
- 1.3 The Notice of Shipment and request for Form 302 shall contain the following information, as appropriate:
- 1.3.1 Purchaser's Order Number;
  - 1.3.2 Order Item Number, Designation and Quantities;
  - 1.3.3 Destination;
  - 1.3.4 Number and Description of Packages (gross and net weight);
  - 1.3.5 Consignor's Name and Address;
  - 1.3.6 Consignee's Name and Address;
  - 1.3.7 Method of Shipment (i.e. road, rail, sea, air, etc.);
  - 1.3.8 Name and Address of Freight Forwarder.
- 1.4 Forwarding Agents, Carriers or other responsible organisations shall be informed by "Company" of the availability of FORM 302 and how the form should be utilised to avoid the payment of custom duties.

### 2. CONTRACTOR PERSONNEL WORKING AT PURCHASER'S FACILITIES

- 2.1 The term "Purchaser Facilities" as used in this clause shall be deemed to include sites, property, utilities, ships or vessels owned or controlled by NATO, NATO Bodies or NATO Member Nations or NATO Contractor and the term "Facility Representative" shall be deemed to refer to the authority designated by the Representative responsible for such site, property, utility, ship or vessel.

- 2.2 The Facility Representative shall provide such available administrative and technical facilities for "Company"'s personnel working at the Purchaser's Facilities for the purpose of the Agreement as in the opinion of the Facility Representative may be necessary for the effective and economical discharge of work under this Agreement. These facilities may be provided at no cost at the discretion of the Facility Representative. "Company" shall be responsible for ascertaining what necessary facilities may be provided and whether they will be provided free of charge, or determining what charges are payable.
- 2.3 "Company" shall, except as otherwise provided for in the Agreement, make good or, at the option of the Purchaser, pay compensation for all damage occurring to any Purchaser's Facilities occasioned by "Company" or by his servants, agents or subcontractors, arising from his or their presence on Purchaser Facilities in connection with the Agreement; provided that this Condition shall not apply to the extent that "Company" is able to show that any such damage was not caused by "Company"'s neglect or default, or the neglect or default of "Company"'s servants, agents or subcontractors.
- 2.4 All property of "Company" while at a Purchaser Facility shall be at risk of "Company" and the Purchaser shall accept no liability for any loss or damage, except to the extent that any loss or damage is the result of a wilful act or gross negligence on the part of the Purchaser's employees or agents.

### **3. PURCHASER FURNISHED PROPERTY**

- 3.1 The term "Purchaser Furnished Property" as used in this clause refers to items of equipment, material or property furnished by the Purchaser to "Company" which shall be subject to overhaul, repair, modification, test, embodiment or other work as specified in any Order under this Agreement to be performed by "Company".
- 3.2 The Purchaser shall deliver to "Company", for use only in connection with any Order under this Agreement, the property described in the schedule or specifications (hereinafter referred to as "Purchaser Furnished Property"), at the times and locations stated therein. In the event that Purchaser Furnished Property is not delivered by such time or times stated in the Schedule, or if not so stated, in sufficient time to enable "Company" to meet such delivery or performance dates the Purchaser shall, upon timely written request made by "Company", and if the facts warrant such action, equitably adjust any affected provision of the Order pursuant to the procedures of the "Changes" clause hereof.
- 3.3 In the event that Purchaser Furnished Property is received by "Company" in a condition not suitable for its intended use, "Company" shall immediately notify the Purchaser. The Purchaser shall within a reasonable time of receipt of such notice replace, re-issue, authorise repair or otherwise issue instructions for the disposal of Purchaser Furnished Property agreed to be unsuitable. The Purchaser shall, upon timely written request by "Company", equitably adjust any affected provision of the Order pursuant to the procedures of the "Changes" clause hereof.



- 3.4 Title to Purchaser Furnished Property shall remain in the Purchaser. "Company" shall maintain adequate property control records of Purchaser Furnished Property in accordance with sound industrial practice.
- 3.5 Unless otherwise provided in the Order, "Company", upon delivery to him of any Purchaser Furnished Property, assumes the risk of, and shall be responsible for, any loss thereof or damage thereof except for reasonable wear and tear, and except to the extent that such property is consumed in the performance of the Order.
- 3.6 Upon completion of the Order, or at such earlier dates as may be specified by the Purchaser, "Company" shall submit, in a form acceptable to the Purchaser, inventory schedules covering all items of Purchaser Furnished Property not consumed in the performance of the Order or not theretofore returned to the Purchaser. "Company" shall prepare for shipment, deliver FOB origin, or otherwise dispose of Purchaser Furnished Property as may be directed or authorised by the Purchaser. The net proceeds of any such disposal shall be credited to the contract price or paid in such other manner as the Purchaser may direct.
- 3.7 "Company" shall not modify any Purchaser Furnished Property unless specifically authorised by the Purchaser or directed by the terms of the Order.

#### **4. INDEMNIFICATION**

- 4.1 "Company" shall indemnify and hold the Purchaser harmless against claims for injury to "Company" employees, agents, or subcontractors, or damages to property of "Company" or others arising from "Company"'s possession or use of Purchaser Furnished Property or Facilities in the performance of work as specified in an Order; except to the extent that "Company" is able to show any such injury or damage was caused by Purchaser's wilful act or negligence.

#### **5. TITLE AND RISK OF LOSS**

- 5.1 Unless the Order specifically provides for earlier passage of title, title to supplies covered by the Order shall pass to the Purchaser upon acceptance as specified in the Order, regardless of when or where the Purchaser takes physical possession.
- 5.2 Unless the Order specifically provides otherwise, risk of loss or damage to supplies covered by this Agreement and any Order shall remain with "Company" until, and shall pass to the Purchaser upon:
- 5.2.1 delivery of supplies as specified in accordance with the Agreement; or
- 5.2.2 acceptance by the Purchaser or receipt of supplies by the Purchaser at the destination specified in the Order, whichever is the later.

5.3 Notwithstanding 5.2 above, the risk of loss or damage to supplies which fail to conform to the requirements of the Order shall remain with "Company" until cure or acceptance, at which time 5.2 above shall apply.

5.4 Notwithstanding 5.2 above "Company" shall not be liable for the loss of or damage to supplies caused by the negligence of officers, agents or employees of the Purchaser acting within the scope of their employment under the terms and conditions of this Agreement.

## **6. TRANSFER REQUIREMENTS**

6.1 "Company" shall not give, bargain, sell, assign, sub-let or otherwise dispose of any order under this Agreement or any part thereof or the benefit or advantage of the Order or any part thereof without the previous consent in writing of the Purchaser.

## **7. INSPECTION, ACCEPTANCE AND REJECTION**

7.1 Unless otherwise specifically provided for in the Order, all equipment, materials and supplies incorporated in the work covered by this Agreement are to be new and of the most suitable grade of their respective kinds for the purpose, notwithstanding the requirements for testing, inspection and performance as required under this Agreement. All workmanship shall be as required under the Order or, if not specified, best commercial (National and International) standard.

7.2 All supplies (which term throughout this clause includes without limitation raw materials, components, intermediate assemblies, end products, data including software and firmware) and services may be subject to inspection and test by the Purchaser, or his authorised representative to the extent practicable at all times and places prior to acceptance, including the period of manufacture, or after delivery, or as otherwise specified in the Order. For the purposes of inspection and testing the Purchaser may delegate as his representative the authorised National Quality Assurance Representative (NQAR) in accordance with STANAG 4107.

7.3 No representative or NQAR appointed by the Purchaser for the purpose of determining the Contractor's compliance with the technical requirements of the Order shall have the authority to change any of the specifications. Such changes may only be made by the Contracting Authority in writing in accordance with the clause of this Agreement entitled "Changes".

7.4 The presence or absence of an NQAR or other Purchaser representative shall not relieve "Company" from any of the requirements of this Agreement.

7.5 In the event that any supplies, or lots thereof, or services are defective in design, material, workmanship or manufacturing quality, or as a result of undue wear and tear or otherwise not in conformity with the requirements of the order, including any characteristic or condition which is or becomes at variance to the performance specifications and to the intended function of the supplies, the Purchaser shall have the right either to reject them (with or without instructions as to their disposition) or to require their correction or

replacement. Supplies, or lots thereof or services which have been rejected or required to be corrected or replaced shall, at the expense of "Company", be removed, or, if permitted or required by the Contracting Authority, corrected in place by "Company" promptly after notice, and shall not thereafter be tendered for acceptance by "Company" unless the former rejection or requirement of correction or replacement is disclosed. If "Company" fails promptly to remove, replace or correct such supplies or lots thereof, or services, the Purchaser either:

- 7.5.1 may by Order or otherwise return, replace or correct such supplies or services and charge "Company" the cost incurred by the Purchaser, or
- 7.5.2 may terminate this Agreement for default as provided in the clause of this Agreement entitled "Termination for Default".
- 7.6 Unless "Company" corrects or replaces such supplies or services within the delivery schedule, the Purchaser may require the delivery of such supplies or services at a reduction in price which is equitable under the circumstances. Failure to agree to such reduction of price shall be a dispute within the meaning of the clause of this Agreement entitled "Disputes".
- 7.7 If any inspection or test is made by the Purchaser's representatives on the premises of "Company" or sub-contractor, "Company", without additional charge, shall provide all reasonable facilities and assistance for the safety and convenience of the Purchaser's representatives in the performance of their duties. The NQAR or other Purchaser representatives shall have the right of access to any area of "Company"'s or his sub-contractor's premises where any part of the contractual work is being performed. If Purchaser inspection or test is made at a point other than the premises of "Company" or sub-contractor, it shall be at the expense of the Purchaser except as otherwise provided in this Agreement; provided that in case of rejection the Purchaser shall not be liable for any reduction in value of samples used in connection with such inspection or test. All inspections and tests by the Purchaser shall be performed in such a manner as not to unduly delay the work. The Purchaser reserves the right to charge to "Company" any additional cost of Purchaser inspection and test when supplies or services are not ready at the time such inspection and test is requested by "Company" or when re-inspection or retest is necessitated by prior rejection. Acceptance or rejection of the supplies or services shall be made as promptly as practicable after delivery, except as otherwise provided in the Order, but failure to inspect and accept or reject supplies or services shall neither relieve "Company" from responsibility for such supplies or services as are not in accordance with the Order requirements nor impose liability on the Purchaser thereof.
- 7.8 The inspection and test by the Purchaser of any supplies or lots thereof, or services does not relieve "Company" from any responsibility regarding defects or other failures to meet the contract requirements which may be discovered prior to acceptance. Except as otherwise provided in the Order, acceptance shall be conclusive except as regards latent defects, fraud, or such gross mistakes as amount to fraud.

- 7.9 Acceptance of supplies or services shall take place when the Purchaser confirms acceptance of the supplies or services in accordance with the procedure specified in the Order, or if none is so specified then the Purchaser shall be deemed to have accepted the supplies or services without prejudice to any other remedies, when and as soon as any of the following events have occurred:
- 7.9.1 The Purchaser has taken the supplies or services into use;
- 7.9.2 The Purchaser has not exercised its right of rejection of the supplies or services within any period specified for that purpose in the Order;
- 7.9.3 There being no period of exercising the right of rejection specified in the Order, a reasonable time, all the circumstances having been taken into account, has elapsed since delivery of the supplies or services was effected in accordance with the Order.
- 7.10 Unless otherwise specified in this Agreement, "Company" shall have or establish, implement and maintain an effective and economical quality control system, planned and developed in conjunction with other contractor functions necessary to satisfy the contract requirement. The system shall be acceptable to the Purchaser and its authorised representatives. The system shall provide for the early and prompt detection of deficiencies, trends and conditions which could result in unsatisfactory quality, and for timely and effective corrective action. Objective evidence that the system is effective shall be readily available to the Purchaser and its authorised representatives. Records of all inspection and testing work by "Company" shall be kept complete and available to the Purchaser's representatives during the performance of any Order under this Agreement and for such longer periods as may be specified elsewhere in the Order.
- 7.11 Product acceptance shall be accomplished by using test procedures and/or programs established by "Company" which are applicable to the Products, unless otherwise agreed in writing by the Purchaser and "Company". Such acceptance shall be at the time of completion of final tests at "Company"'s facilities, except as otherwise specified below. If Purchaser has conveyed in writing its intention to witness final tests in the Order, "Company" will give Purchaser prior notice of the date of such tests. Purchaser shall be responsible for any charges that may be associated with witnessing said tests. If installation by "Company" is included in the purchase price, acceptance will be at any installation site specified by the Purchaser, when "Company" demonstrates that the applicable diagnostic and/or verification programs work properly. If "Company"'s demonstration of the programs at the installation site is delayed for more than fifteen (15) calendar days, except due to the fault of "Company", the Products will be deemed accepted.

## 8. PREFERRED CUSTOMER

- 8.1 "Company" warrants that the prices set forth in this Agreement, and appendices thereto, are as favourable as those extended to any Government, Agency, Company, Organisation or individual purchasing or handling like quantities of equipment and/or parts covered by the Agreement under similar conditions. In the event that prior to complete delivery under this Agreement "Company" offers any of such items in substantially similar quantities under similar conditions to any customer at prices lower than those set forth herein, "Company" shall so notify the Purchaser and the prices of such items shall be correspondingly reduced by a supplement to this Agreement. Price in this sense means "Base Price" prior to applying any bonus, export tax reduction, turn-over tax exemptions and other reductions based on National Policies.

## 9. PRICE FIXING

- 9.1 Offers for sole source procurement, changes, modifications, and claims in excess of \$500,000 shall be priced in accordance with this provision and the Purchaser's Pricing Principles as set out in Appendix 1 to this provision, or the National Government Pricing Rules and Regulations for "Company"'s own country where in force.
- 9.2 This provision shall also apply to follow-on contracts of any nature including maintenance and supply of spare parts which exceed \$500,000. Should such contracts be placed by NATO, NATO Bodies or Governmental Agencies of NATO Member Nations, such organisations shall be entitled to all rights, powers and privileges that the Purchaser has under this Agreement.
- 9.3 To the extent the product proposed is a Commercial Off The Shelf (COTS) or COTS derivative item which has been sold to the general public or which is being developed for sale to the general public, including services normally provided for maintenance and installation, and consistent with, for example, the Rules of the Federal Acquisition Regulation (FAR), said items will be defined as "COMMERCIAL" and shall not be subject to paragraphs 9.4 or 9.5.
- 9.3.1 For the purposes of verifying that cost or pricing data submitted in conjunction with paragraphs 9.1 and 9.2 above are accurate, complete and current, the Purchaser shall, until the expiration of three (3) years from the date of final payment of all sums due under the Agreement, have the right of access to "Company"'s facilities to examine those books, records, documents and other supporting data which will permit adequate evaluation and verification of the cost or pricing data submitted along with the computations and projections used therein which were available to "Company" as of the date of "Company"'s price proposal.
- 9.4 "Company", when the price exceeds \$500,000, and subject to paragraph 9.3 above, shall require its Subcontractors to provide to the Purchaser, either directly or indirectly:
- 9.4.1 cost or pricing data or substantiation of commercial product status;

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- 9.4.2 access to Subcontractor's facilities and records by the National Audit Agency for the purpose of verification of such cost or pricing data; and
- 9.4.3 a Certificate of Current Cost or Pricing Data when required.
- 9.5 Price Reduction for Defective Cost or Pricing Data.
  - 9.5.1 If any price, including profit or fee, negotiated in connection with this Agreement or any cost reimbursable under this Agreement was increased by any significant sums because:
    - 9.5.1.1 "Company" furnished cost or pricing data which was not complete, accurate and current as certified in "Company"'s Certificate of Current Cost or Pricing Data provided in accordance with paragraph 9.6 below.
    - 9.5.1.2 A Subcontractor, pursuant to paragraph 9.4 above or any subcontract clause therein required, furnished cost or pricing data which was not complete, accurate and current as certified in the Subcontractor's Certificate of Current Cost or Pricing Data.
    - 9.5.1.3 A Subcontractor or prospective Subcontractor furnished cost or pricing data which was required to be complete, accurate and current and to be submitted to support a Subcontract cost estimate furnished by "Company" but which was not complete, accurate and current as of the date certified in "Company"'s Certificate of Current Cost or Pricing Data; or
    - 9.5.1.4 "Company" or a Sub-contractor or prospective Subcontractor furnished any data, not within paragraphs 9.5.1.1, 9.5.1.2 or 9.5.1.3 above, which was not accurate as submitted
  - 9.5.2 Then the price or cost shall be reduced accordingly and the Order shall be modified in writing as may be necessary to reflect such reductions.
- 9.6 Certificate of Current Cost or Pricing Data.
  - 9.6.1 At the time of negotiating any price, including profit or fee, "Company" shall be required to submit a Certificate of Current Cost or Pricing Data as required by paragraph 9.4.3.
  - 9.6.2 Such Certificate will certify that, to the best of "Company"'s knowledge and belief, cost or pricing data submitted to the Purchaser in support of any proposal for a price, price adjustment or claim, are accurate, complete and current, as per the completion of the negotiations or, in the case of a claim, as per the submission date of the claim.
  - 9.6.3 All such certificates shall be in the format shown below and shall be dated and signed by a responsible officer of the company.

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CERTIFICATE OF CURRENT COST OR PRICING DATA

This is to certify that, to the best of my knowledge and belief, cost or pricing data as submitted, either actually or by specific identification in writing to the Purchaser or his representative in support of \_\_\_\_\_ are accurate, complete and current as of \_\_\_\_\_.  
day month year

Firm \_\_\_\_\_  
Name \_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_  
Date of Execution

9.7 "Company" shall insert the substance of this Clause in each Subcontract where applicable.

**10. TAXES AND DUTIES**

10.1 NATO, NATO Bodies and certain other Eligible Purchasers are exempt from all taxes and all customs duties on Products and Services imported or exported hereunder. "Company" therefore, certifies that the prices stipulated under this Agreement do not include amounts to cover such taxes or customs duties. "Company" shall be responsible for determining whether such exemptions apply for other Eligible Purchasers, as defined under paragraphs 3.1.3, 3.1.4 and 3.2 of Part I, Special Provisions above.

10.2 In cases where taxes and duties are levied, "Company" should seek reimbursement directly from the authorities concerned in compliance with the applicable procedures. The Purchaser shall provide reasonable assistance in claiming reimbursement.

10.3 In the event that reimbursement is not made by the authorities concerned, and providing that "Company" has complied with applicable procedures, Purchaser shall reimburse the full amount of the payments upon receipt of "Company"'s invoice indicating such tax or duty as a separate item or cost and fully identified by reference to any governmental law, regulation and/or instruction pursuant to which such tax or duty is enforced.

10.4 Following payment by the Purchaser of the taxes and/or duties pursuant to paragraph 10.3 above, should "Company" receive a rebate of any amount paid by Purchaser, "Company" shall immediately notify Purchaser, and the amount of such rebate shall be credited or reimbursed to the Purchaser, as directed. "Company" shall be responsible for taking any and all action that could reasonably be required in order to obtain such rebate.

## 11. INVOICES

- 11.1 Invoices shall be prepared and submitted by "Company" in a manner as agreed with Purchaser and shall contain: BOA number, Order number (if any), description of Products, sizes, quantities, unit prices, and extended totals (exclusive of taxes and duties for which relief is available). Details of Bills of Lading or Freight Warrant numbers and weight of shipment shall be identified on each invoice as appropriate.
- 11.2 In addition, where applicable and on request by Purchaser, documentary evidence of acceptance (as defined in the Agreement) shall be submitted together with each invoice.
- 11.3 All invoices shall be addressed to the designated authority specified by Purchaser.

## 12. CHANGES

- 12.1 The Purchaser may at any time, by written order designated or indicated to be a change order, and without notice to the sureties, if any, make changes within the scope of any Order, in any one or more of the following:
  - 12.1.1 Specifications (including drawings and designs) except to Commercial Products;
  - 12.1.2 Method and manner of performance of the work;
  - 12.1.3 Marking, method of shipment and packing;
  - 12.1.4 Time and place of delivery; and
  - 12.1.5 Purchaser Furnished Property and Facilities (including Equipment, materials, services or sites).
- 12.2 Any other written or oral order (which, as used in this paragraph 12.2, includes direction, instruction, interpretation, or determination) from the Purchaser that causes a change shall be treated as a change order under this clause, provided, that "Company" gives the Purchaser written notice within thirty (30) days after receipt of such change order stating:
  - 12.2.1 the date, circumstances, and source of the order and
  - 12.2.2 that "Company" regards the order as a change order, and that the order is accepted in writing by the Purchaser as a change order. The timely written notice requirement, as detailed above, remains in force in all cases, even where, for example, the Purchaser has positive knowledge of the relevant facts.
- 12.3 Except as provided in this clause, no order, statement, or conduct of the Purchaser shall be treated as a change order under this clause or entitle "Company" to an equitable adjustment.



- 12.4 If any such change order causes an increase or decrease in "Company"'s cost of, or the time required for the performance of any part of the work under the Order, whether or not changed by any such order, the Purchaser shall make an equitable adjustment and modify the Order in writing accordingly. However, except for a "proposal for adjustment" (hereafter referred to as "proposal") based on defective specifications, no proposal for any change under paragraph 12.2 above shall be allowed for any costs incurred more than thirty (30) days before "Company" gives written notice as required. In the case of defective specifications for which the Purchaser is responsible, the equitable adjustment shall include any increased cost reasonably incurred by "Company" in attempting to comply with the defective specifications. Where the cost of property made obsolete or excess as a result of a change is included in the "Company"'s claim for adjustment, the Purchaser shall have the right to prescribe the manner of disposition of such property. Failure to agree to any adjustment shall be a dispute within the meaning of the clause of this Agreement entitled "Disputes." However, nothing in this clause shall excuse "Company" from proceeding with the Order as changed.
- 12.5 "Company" must submit any proposal under this clause within thirty (30) days after
- 12.5.1 receipt of a written change order under paragraph 12.1 above or
- 12.5.2 the furnishing of a written notice under paragraph 12.2, by submitting to the Purchaser a written statement describing the general nature and amount of the proposal, unless this period is extended by the Purchaser. The statement of proposal for adjustment may be included in the notice under paragraph 12.2 above.
- 12.6 No proposal by "Company" for an equitable adjustment shall be allowed if asserted after final payment and acceptance under the Order.

### **13. PURCHASER DELAY OF WORK**

- 13.1 If the performance of all or any part of the work is delayed or interrupted by an act of the Purchaser in the administration of the Order, which act is not expressly or implicitly authorized by the Order, or by his failure to act within the time specified in the Order (or within a reasonable time if not time is specified), an adjustment shall be made for any increase in the cost of performance of the Order caused by such a delay or interruption and the Order modified in writing accordingly. Adjustments shall be made also in the delivery or performance dates and any other contractual provision affected by such delay or interruption. However, no adjustment shall be made under this clause for any delay or interruption:
- 13.1.1 to the extent that performance would have been delayed or interrupted by any other clause, including the fault or negligence of "Company"; or
- 13.1.2 for which an adjustment is provided under any other provision of this Agreement.
- 13.2 No claim under this clause shall be allowed:

13.2.1 for any costs incurred more than twenty (20) days before "Company" shall have notified the Purchaser in writing of the act or failure to act involved; and

13.2.2 unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of such delay or interruption, but not later than the date of final payment under the Order.

#### **14. STOP WORK ORDER**

14.1 The Purchaser may, at any time, by written order to "Company", require "Company" to stop all, or any part, of the work called for by the Order for a period of ninety (90) days after the order is delivered to "Company", and for any further period to which the Parties may agree. Any such order shall be specifically identified as a Stop Work Order issued pursuant to this clause. Upon receipt of such an order, "Company" shall forthwith comply with its terms and take all reasonable steps to minimise costs incurred allocable to the work covered by the order during the period of work stoppage. Within a period of ninety (90) days after a stop work order is delivered to "Company", or within any extension of that period to which the Parties shall have agreed, the Purchaser shall either:

14.1.1 cancel the stop work order, or

14.1.2 terminate the work covered by such order in accordance with paragraph 20,

#### **TERMINATION FOR CONVENIENCE OF THE PURCHASER.**

14.2 If a stop work order issued under this clause is cancelled or the period of the order or any extension thereof expires, "Company" shall resume work. An equitable adjustment shall be made in the delivery schedule or Contract price, or both, and the Order shall be modified in writing accordingly, if:

14.2.1 the stop work order results in an increase in the time required for, or in "Company"'s cost properly allocable to, the performance of any part of the Order, and

14.2.2 "Company" asserts a claim for such adjustment within thirty (30) days after the end of the period of work stoppage; provided that, if the Purchaser decides the facts justify such action, he may receive and act upon any such claim asserted at any time prior to final payment under any Order.

14.3 If a stop order is not cancelled and the work covered by such order is terminated for the convenience of the Purchaser, the reasonable costs resulting from the stop work order shall be allowed in arriving at the termination settlement.

## **15. ORDER OF PRECEDENCE**

- 15.1 In the case of any inconsistencies herein, the order of precedence of the contractual documents is as follows:
- 15.1.1 the Special Provisions
  - 15.1.2 the General Provisions
  - 15.1.3 Exhibits and Appendices,
- 15.2 Except where inconsistency between the terms of this Agreement and those contained in any Order have been expressly agreed between the Purchaser and "Company", the terms of this Agreement shall take precedence.

## **16. APPLICABLE LAW**

- 16.1 This Agreement and each subsequent Order under this Agreement between NCIA and "Company" shall be governed by and construed in accordance with the private contract law of the Kingdom of Belgium. Orders signed between "Company" and any other Purchaser under this Agreement shall be governed by the laws applicable to the country of the Purchaser, unless otherwise agreed between the Purchaser and "Company".

## **17. DISPUTES AND ARBITRATION**

- 17.1 In the event of a dispute under this Agreement or any Order issued hereunder, the Parties shall attempt to settle their difference in an amicable manner. However, in the event that a settlement cannot be made under this Agreement within a reasonable period of time, the Parties agree to institute arbitration proceedings in the manner provided in the following Arbitration provision and such disputes shall finally be settled thereby, unless otherwise agreed between the Purchaser and "Company".
- 17.1.1 "Company" agrees to submit to the Arbitration Tribunal only such issues, facts, evidence and proof which "Company" had beforehand identified and submitted to the Purchaser for decision. The jurisdictional authority of the Arbitration Tribunal shall be restricted to consider only those identical issues, facts, evidence and proof so identified and submitted to the Purchaser.
  - 17.1.2 The party instituting the arbitration proceedings shall advise the other party by registered letter, with official notice of delivery, of his desire to have recourse to arbitration. Within a period of thirty days from the date of receipt of this letter, the parties shall jointly appoint an arbitrator. In the event of failure to appoint an arbitrator the dispute or disputes shall be submitted to an Arbitration Tribunal consisting of three arbitrators, one being appointed by the Purchaser, another by "Company" and the third, who shall act as President of the Tribunal, by these two arbitrators. Should one of the parties fail to appoint an arbitrator during the fifteen days following the expiration of the first period of thirty days, or should the two arbitrators be unable to agree on the choice of the third member of the Arbitration Tribunal within thirty days following the expiration of the said first period, the appointment shall be

made, within twenty-one days, at the request of the party instituting the proceedings, by the Secretary General of the Permanent Court of Arbitration at The Hague.

- 17.1.3 Regardless of the procedure concerning the appointment of this Arbitration Tribunal, the third arbitrator will have to be of a nationality different from the nationality of the other two members of the Tribunal.
- 17.1.4 Any arbitrator must be of the nationality of any one of the NATO Member Nations and shall be bound by the rules of security in force within NATO.
- 17.1.5 Any person appearing before the Arbitration Tribunal in the capacity of an expert witness shall, if he is of the nationality of one of the NATO Member Nations, be bound by the rules of security in force within NATO; if he is of another nationality, no NATO classified documents or information shall be communicated to him.
- 17.1.6 An arbitrator who, for any reason whatsoever, ceases to act as an arbitrator, shall be replaced under the procedure laid down in paragraph 17.1.2 above.
- 17.1.7 The Arbitration Tribunal will take its decisions by a majority vote. It shall decide where it will meet and, unless it decides otherwise, shall follow the arbitration procedures of the International Chamber of Commerce in force at the date of signature of the present Agreement.
- 17.1.8 The awards of the arbitrator or of the Arbitration Tribunal shall be final and there shall be no right of appeal or recourse of any kind. These awards shall determine the apportionment of the arbitration expenses.
- 17.2 The place of arbitration shall be Brussels, Belgium, in the case of dispute under this Agreement or under any subsequent Order between "Company" and NCIA, and shall be the country of the Purchaser in the case of a dispute between "Company" and any other Purchaser, unless otherwise agreed between the Purchaser and "Company".

## **18. DELAYS IN DELIVERY**

- 18.1 "Company" agrees to notify Purchaser in the event that it anticipates difficulty in meeting delivery schedule. Receipt of such notice shall not be deemed to be a waiver by Purchaser of rights or remedies which it may have for failure to meet an agreed delivery date. Notwithstanding the above "Company" shall be deemed to be in delay without notice from the Purchaser and only by simple expiry of the due delivery date.

## **19. TERMINATION FOR DEFAULT**

- 19.1 The Purchaser may, subject to the provisions of paragraph 19.3 below, by written notice of default to "Company", terminate the whole or any part of an Order in any one of the following circumstances:
  - 19.1.1 if "Company" fails to make delivery of the supplies or to perform the services within the time specified herein or any extension thereof; or

- 19.1.2 if "Company" fails to perform any of the other provisions of this Agreement, or so fails to make progress as to endanger performance of an Order in accordance with its terms, and in either of these two circumstances does not cure such failure within a period of ten days (or such longer period as the Purchaser may authorise in writing) after receipt of notice in writing from the Purchaser specifying such failure.
- 19.2 In the event the Purchaser terminates an Order in whole or in part, as provided in paragraph 19.1 of this clause, the Purchaser may procure, upon such terms and in such manner as the Purchaser may deem appropriate, supplies or services similar to those so terminated, and "Company" shall be liable to the Purchaser for any excess costs for such similar supplies or services. However, "Company" shall continue the performance of an Order to the extent not terminated under the provisions of this clause.
- 19.3 Except with respect to defaults of sub-contractors, "Company" shall not be liable for any excess costs if the failure to perform the Order arises out of causes beyond the control and without the fault or negligence of "Company". Such causes may include, but are not restricted to, acts of God, or of the public enemy, acts of the Purchaser in its contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of "Company". If the failure to perform is caused by the default of a sub-contractor, and if such default arises out of causes beyond the control of both "Company" and sub-contractor, without the fault or negligence of either of them, "Company" shall not be liable for any excess costs for failure to perform unless the supplies or services to be furnished by the sub-contractor were obtainable from other sources in sufficient time to permit "Company" to meet the required delivery schedule.
- 19.4 If an Order is terminated as provided in paragraph 19.1 of this clause, the Purchaser, in addition to any other rights provided in this clause, may require "Company" to transfer title and deliver to the Purchaser, in the manner and to the extent directed by the Purchaser:
- 19.4.1 any completed supplies, and
- 19.4.2 such partially completed supplies and materials, parts, tools, dies, jigs, fixtures, plans, drawings, information, and contract rights (hereinafter called "manufacturing materials") as "Company" has specifically produced or specifically acquired for the performance of such part of an Order as has been terminated;

and "Company" shall, upon direction of the Purchaser, protect and preserve property in the possession of "Company" in which the Purchaser has an interest. Payment for completed supplies delivered to and accepted by the Purchaser shall be at the contract price. Payment for manufacturing materials delivered to and accepted by the Purchaser and for the protection and preservation of property shall be in an amount agreed upon by "Company" and Purchaser. Failure to agree to such amount shall be a dispute within the meaning of the clause of this agreement entitled "Disputes and Arbitration". The Purchaser may withhold from amounts otherwise due to "Company" for

such completed supplies or manufacturing materials such sum as the Purchaser determines to be necessary to protect the Purchaser against loss because of outstanding liens or claims of former lien holders.

- 19.5 If, after notice of termination of an Order under the provisions of this clause, it is determined for any reason that "Company" was not in default under the provisions of this clause, or that the default was excusable under the provisions of this clause, the rights and obligations of the Parties, shall be the same as if the notice of termination had been issued pursuant to a clause providing for termination of convenience of the Purchaser. If after such notice of termination of an Order under the provisions of this clause, it is determined for any reason that "Company" was not in default under the provisions of this clause and if the Order does not contain a clause providing for termination for convenience of the Purchaser the Order shall be equitably adjusted to compensate for such termination and the Order modified accordingly. Failure to agree to any such adjustment shall be a dispute within the meaning of the clause of this Agreement entitled "Disputes".
- 19.6 The rights and remedies of the Purchaser provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Agreement or any Order issued under the present BOA.

## **20. TERMINATION FOR CONVENIENCE OF THE PURCHASER**

- 20.1 The performance of work under an Order may be terminated by the Purchaser in accordance with this clause in whole, or from time to time in part, whenever the Purchaser shall determine that such termination is in the best interest of the Purchaser. Any such termination shall be effected by delivery to "Company" of a Notice of Termination specifying the extent to which performance of work under an Order is terminated, and the date upon which such termination becomes effective.
- 20.2 After receipt of a Notice of Termination and except as otherwise directed by the Purchaser, "Company" shall:
- (i) stop work under the Order on the date and to the extent specified in the Notice of Termination;
  - (ii) place no further orders or sub-contracts for materials, services or facilities, except as may be necessary for completion of such portion of the work under the Order as is not terminated;
  - (iii) terminate all orders and sub-contracts to the extent that they relate to the performance of work terminated by the Notice of Termination;
  - (iv) assign to the Purchaser, in the manner, at the times and to the extent directed by the Purchaser, all of the right, title and interest of "Company" under the orders and sub-contracts so terminated, in which case the Purchaser shall have the right, in its discretion, to settle or pay any or all claims arising out of the termination of such orders and sub-contracts;

- (v) settle all outstanding liabilities and all claims arising out of such termination of orders and sub-contracts, with the approval or ratification of the Purchaser to the extent he may require, which approval or ratification shall be final for all the purposes of this clause;
- (vi) transfer title and deliver to the Purchaser in the manner at the times, and to the extent, if any, directed by the Purchaser:
  - a. the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced as a part of, or acquired in connection with the performance of the work terminated by the Notice of Termination, and
  - b. the completed or partially completed plans, drawings, information, and other property which, if the Order had been completed, would have been required to be furnished to the Purchaser;
- (vii) use his best efforts to sell, in the manner, at the times, to the extent, and at the price or prices directed or authorised by the Purchaser, any property of the types referred to in (vi) above. However, "Company":
  - a. shall not be required to extend credit to any Buyer; and,
  - b. may acquire any such property under the conditions prescribed by and at a price or prices approved by the Purchaser; and provided further that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the Purchaser to "Company" under an Order or shall otherwise be credited to the price or cost of the work covered by an Order or paid in such manner as the Purchaser may direct;
- (viii) complete performance of such part of the work as shall not have been terminated by the Notice of Termination; and
- (ix) take such action as may be necessary, or as the Purchaser may direct, for the protection and preservation of the property related to an Order which is in the possession of "Company" and in which the Purchaser has or may acquire an interest.

20.3 "Company" may submit to the Purchaser a list, certified as to quantity and quality, of any or all items of termination inventory not previously disposed of, exclusive of items the disposition of which has been directed or authorised by the Purchaser, and may request the Purchaser to remove such items or enter into a storage agreement covering the same; provided that the list submitted shall be subject to verification by the Purchaser upon removal of the items, or if the items are stored, within forty-five (45) days from the date of submission of the list, and any necessary adjustment to correct the list as submitted shall be made prior to final settlement.

- 20.4 After receipt of a Notice of Termination, "Company" shall submit to the Purchaser his termination claim, in the form and with certification prescribed by the Purchaser. Such claim shall be submitted promptly but in no event later than six months from the effective date of termination, unless one or more extensions in writing are granted by the Purchaser, upon request of "Company" made in writing within such six-month period or authorised extension thereof. However, if the Purchaser determines that the facts justify such action, he may receive and act upon any such termination claim at any time after such six-month period or any extension thereof. Upon failure of "Company" to submit his termination claim within the time allowed, the Purchaser may determine on the basis of information available to him, the amount, if any, due to "Company" by reason of the termination and shall thereupon pay to "Company" the amount so determined.
- 20.5 Subject to the provisions of paragraph 20.2 "Company" and the Purchaser may agree upon the whole or any part of the amount or amounts to be paid to "Company" by reason of the total or partial termination of work pursuant to this clause, which amount or amounts may include a reasonable allowance for profit on work done; provided that such agreed amount or amounts exclusive of settlement costs shall not exceed total contract price as reduced by the amount of payments otherwise made and as further reduced by the contract price of the work not terminated. The Order shall be amended accordingly and "Company" shall be paid the amount agreed. Nothing in paragraph 20.6 of this clause, prescribing the amount to be paid to "Company" in the event of failure of "Company" and the Purchaser to agree upon the whole amount to be paid to "Company" by reason of the termination of work pursuant to this clause, shall be deemed to limit, restrict, or otherwise determine or affect the amount or amounts which may be agreed upon to be paid to "Company" pursuant to this paragraph 20.5.
- 20.6 In the event of the failure of "Company" and the Purchaser to agree as provided in paragraph 20.5 upon the whole amount to be paid to "Company" by reason of the termination of work pursuant to this clause, the Purchaser shall pay to "Company" the amounts determined by the Purchaser as follows, but without duplication of any amounts agreed upon in accordance with paragraph 20.5:
- (i) for completed supplies accepted by the Purchaser (or sold or acquired as provided in paragraph 20.2 (vii) above) and not therefore paid for, a sum equivalent to the aggregate price for such supplies computed in accordance with the price or prices specified in the Order, appropriately adjusted for any saving of freight or other charges;
  - (ii) the total of:
    - a. the costs incurred in the performance of the work terminated including initial costs and preparatory expense allocable thereto, but exclusive of any costs attributable to supplies paid or to be paid for under paragraph 20.6 (i) hereof;



- b. the cost of settling and paying claims arising out of the termination of work under sub-contracts or orders, as provided in paragraph 20.2 (v) above, which are properly chargeable to the terminated portion of the Order, exclusive of amounts paid or payable on account of supplies or materials delivered or services furnished by sub-contractors or vendors prior to the effective date of the Notice of Termination, which amounts shall be included in the costs payable under a. above; and
- c. a sum, as profit on a. above, determined by the Purchaser to be fair and reasonable; provided, however, that if it appears "Company" would have sustained a loss on the entire Order, had it been completed, no profit shall be included or allowed and an appropriate adjustment shall be made reducing the amount of the settlement to reflect the indicated rate of loss; and

(iii) the reasonable costs of settlement, including accounting, legal, clerical and other expenses reasonably necessary for the preparation of settlement claims and supporting data with respect to the terminated portion of the Order and for the termination and settlement of sub-contracts thereunder, together with reasonable storage, transportation, and other costs incurred in connection with the protection, or disposition of property allocable to the Order.

20.7 The total sum to be paid to "Company" under (i) and (ii) of paragraph 20.6 shall not exceed the total contract price as reduced by the amount of payments otherwise made and as further reduced by the contract price of work not terminated. Except for normal spoilage, and except to the extent that the Purchaser shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to "Company", as provided in paragraph 20.6 (i) and (ii)(a) above, the fair value, as determined by the Purchaser, of property which is destroyed, lost, stolen, or damaged so as to become undeliverable to the Purchaser or to a buyer pursuant to paragraph 20.2 (vii) above.

20.8 "Company" shall have the right of appeal, under the clause of this Agreement entitled "Disputes", from any determination made by the Purchaser under paragraphs 20.4 or 20.6 above, except that if "Company" has failed to submit his claim within the time provided in paragraph 20.4 above and has failed to request extension of such time, he shall have no such right of appeal. In any case where the Purchaser has made a determination of the amount due under paragraphs 20.4 or 20.6 above, the Purchaser shall pay "Company" the following:

- (i) if there is no right of appeal hereunder or if no timely appeal has been taken, the amount so determined by the Purchaser, or
- (ii) if an appeal has been taken, the amount finally determined on such appeal.

20.9 In arriving at the amount due to "Company" under this clause there shall be deducted:

- (i) all unliquidated advance or other payments on account theretofore made to "Company", applicable to the termination portion of the Order;
- (ii) any claim which the Purchaser may have against "Company" in connection with the Order, and
- (iii) the agreed price for, or the proceeds of the sale of, any materials, supplies, or other things acquired by "Company" or sold, pursuant to the provisions of this clause, and not otherwise recovered by or credited to the Purchaser.

20.10 If the termination hereunder is partial, prior to the settlement of the terminated portion of the Order, "Company" may file with the Purchaser a request in writing for an equitable adjustment of the price or prices specified in the Order relating to the continued portion of the Order (the portion not terminated by the Notice of Termination), and such equitable adjustment as may be agreed upon shall be made in such price or prices.

20.11 The Purchaser may from time to time, under such terms and conditions as it may prescribe, make partial payments and payments on account against costs incurred by "Company" in connection with the terminated portion of an Order whenever in the opinion of the Purchaser the aggregate of such payments shall be within the amount to which "Company" will be entitled hereunder. If the total of such payment is in excess of the amount finally agreed or determined to be due under this clause, such excess shall be payable by "Company" to the Purchaser upon demand, together with interest calculated using the average of the official base rate(s) per annum as notified by the Banque Nationale de Belgique or such other official source as may be determined by the Purchaser, for the period from the date the excess is received by "Company" to the date such excess is repaid to the Purchaser, provided, however, that no interest shall be charged with respect to any such excess payment attributed to a reduction in "Company"'s claim by reason of retention or other disposition of termination inventory until ten days after the date of such retention or disposition or such later date as determined by the Purchaser by reason of the circumstances.

20.12 Unless otherwise provided for in the Order, "Company", from the effective date of termination and for a period of three years after final settlement under the Order, shall preserve and make available to the Purchaser at all reasonable times at the office of "Company", but without direct charge to the Purchaser, all his books, records, documents, and other evidence bearing on the costs and expenses of "Company" under an Order and relating to the work terminated hereunder, or, to the extent approved by the Purchaser, photographs, micro-photographs, or other authentic reproductions thereof.

## 21. SUB-CONTRACTS

- 21.1 "Company" shall place and be responsible for the administration and performance of all sub-contracts including terms and conditions which he deems necessary to meet the requirements of the Order in full.
- 21.2 "Company" shall not place sub-contracts outside the NATO member Nations unless the prior authorisation of the Purchaser has been obtained. Such authorisation will not be granted when the sub-contract involves the carrying out of classified work.
- 21.3 "Company" shall determine that any sub-contractor proposed by him for the furnishing of supplies or services which will involve access to classified information in "Company"'s custody has been granted an appropriate facility security clearance by the sub-contractor's national authorities, which is still in effect, prior to being given access to such classified information.
- 21.4 "Company" shall seek the approval in writing of the Purchaser prior to the placing of any sub-contract if:-
- 21.4.1 the value of the sub-contract is known or estimated to exceed € 125,000, or the equivalent currency;
- 21.4.2 the sub-contract is one of a number of sub-contracts with a single sub-contractor for the same or related supplies or services under the Order that in the aggregate are known or expected to exceed € 125,000.
- 21.5 "Company" shall submit a copy of any such proposed contract when seeking approval to the Purchaser but such approval by the Purchaser shall in no way relieve "Company" of his responsibilities to achieve the contractual and technical requirements of the Order.
- 21.6 "Company" shall, as far as practicable, select sub-contractors on a competitive basis consistent with the objectives and requirements of the Order.

## 22. PATENT AND COPYRIGHT INDEMNIFICATION

- 22.1 Except as otherwise provided in this Agreement, "Company" shall assume all liability and indemnify the Purchaser, its officers, agents and employees against liability, including costs for the infringement of any patents or copyright in force in any countries arising out of the manufacture, services performed or delivery of supplies, or out of the use or disposal by or for the account of the Purchaser of such supplies. "Company" shall be responsible for obtaining any patent or copyright licences necessary for the performance of an Order and of remaking all other arrangements required to indemnify the Purchaser from any liability for patent or copyright infringement in said countries.
- 22.2 "Company" shall immediately notify the Purchaser of any patent or copyright infringement claims of which he has knowledge and which pertain to the goods and services under this Agreement.

- 22.3 This indemnity shall not apply under the following circumstances:
  - 22.3.1 Patents or copyright which may be withheld from issue by order of the applicable government whether due to security regulations or otherwise;
  - 22.3.2 An infringement resulting from specific written instructions from the Purchaser under this Agreement;
  - 22.3.3 An infringement resulting from changes or additions to the goods and services subsequent to final delivery and acceptance under this Agreement.

**23. CLAIMS**

- 23.1 "Company" shall assert claims in writing and by registered mail, and in accordance with the terms set out below:
- 23.2 Claims shall be submitted within:
  - 23.2.1 the time specified in the Clause or Article under which "Company" alleges to have a claim. If no time is specified in the clause or Article under which "Company" intends to base its claim, the time limit shall be forty-five (45) days from the date "Company" has knowledge or should have had knowledge of the facts on which it bases its claim;
  - 23.2.2 three (3) months after final payment, release of guarantees or performance bond provided under the Order, whichever occurs last. This shall only apply to those claims for which "Company" could not have had earlier knowledge and were not foreseeable.
- 23.3 "Company" shall be foreclosed unless it presents complete documentary evidence, justification and cost for each of its claims within three months from the assertion date of such claims. Claims shall be supported by specifically identified evidence (including applicable historical and planned cost and production data from "Company"'s books and records). Opinions, conclusions or judgmental assertions not supported by such evidence shall be rejected.
  - 23.3.1 An individual breakdown of cost is required for each element of "Company"'s claims at the time of claim submission or for any material revision of the claim.
- 23.4 "Company" shall present, at the time of submission of a claim, an attestation as follows:

"I ..... the responsible senior company official authorised to commit the ..... with respect to its claims dated ..... being duly sworn, do hereby depose and say that: (i) the facts described in the claim are current, complete and accurate; and (ii) the conclusions in the claim accurately reflect the material damages or contract adjustments for which the Purchaser is allegedly liable."

\_\_\_\_\_  
SIGNATURE

23.5 Failure to comply with any of the above requirements shall result in automatic forfeiture of the claim. This foreclosure takes effect in all cases and also where, for example, the claim is based on additional orders, where the facts are known to the Purchaser, where the claim is based on defective specifications of the Purchaser or an alleged negligence in the precontractual stage.

23.6 No claim arising under this Agreement may be assigned by "Company" without prior approval of the Purchaser.

## **24. RELEASE OF CLAIMS**

24.1 Prior to final payment under this Agreement, "Company" and each assignee under this Agreement shall execute and deliver a release discharging the Purchaser, its officers, agents and employees from all liabilities, obligations and claims arising out of or under this Agreement subject only to the following exceptions:

24.1.1 Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible to exact statement by "Company";

24.1.2 Claims for reimbursement of costs (other than expenses of "Company" by reason of its indemnification of the Purchaser against patent liability) including reasonable expenses incidental thereto, incurred by "Company" under the provisions of this Agreement relating to patents.

24.1.3 An infringement resulting from specific written instructions from the Purchaser under the Order.

24.1.4 An infringement resulting from changes or additions to the goods and services subsequent to final delivery and acceptance under the Order.

## **25. EXTRAS**

25.1 Except as otherwise provided in an Order, no payment for extras shall be made unless such extras and the price therefore have been authorised in writing by the Purchaser.

## **26. LANGUAGE**

26.1 In the event of any inconsistency between the original English text of this Agreement and any translation into another language, the original English text will govern.

26.2 All written correspondence and reports provided by and to "Company" shall be, as a minimum, in English.

## **27. SECURITY**

27.1 "Company" shall comply with all security measures as are prescribed by the Purchaser and the National Security Authority or designated Security Agency of each of the NATO Member Nations in which the Agreement is being

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performed. "Company" shall be responsible for the safeguarding of classified information, documentation, material and equipment entrusted to him or generated by him in connection with the performance of an Order.

- 27.2        In particular "Company" undertakes to:
- 27.2.1      appoint an official responsible for supervising and directing security measures in relation to the Order and communicating details of such measures to the Purchaser on request;
  - 27.2.2      maintain, preferably through the official responsible for security measures, a continuing relationship with the National Security Authority or designated Security Agency charged with ensuring that all NATO or National classified information involved in the Order is properly safeguarded;
  - 27.2.3      abstain from copying by any means, without the authorisation of the Purchaser, the National Security Authority or designated Security Agency, any classified documents, plans, photographs or other classified material entrusted to "Company";
  - 27.2.4      furnish, on request, information to the National Security Authority or designated Security Agency pertaining to all persons who will be required to have access to NATO or National classified information;
  - 27.2.5      maintain at the work site a current record of its employees at the site who have been cleared for access to NATO or National classified information. The record should show the date and level of clearance;
  - 27.2.6      deny access to NATO or National classified information to any person other than those persons authorised to have such access by the National Security Authority or designated Security Agency;
  - 27.2.7      limit the dissemination of NATO or National classified information to the smallest number of persons as is consistent with the proper execution of the Order;
  - 27.2.8      comply with any request from the National Security Authority or designated Security Agency that persons entrusted with NATO or National classified information sign a statement undertaking to safeguard that information and signifying their understanding both of their obligations under national legislation affecting the safeguarding of classified information, and of their comparable obligations under the laws of the other NATO Member Nations in which they may have access to classified information;
  - 27.2.9      report to the National Security Authority or designated Security Agency any breaches or suspected breaches of security, suspected sabotage, or other matters of security significance which would include any changes that may occur in the ownership, control or management of the facility or any changes that affect the security arrangements and security status of the facility and to make such other reports as may be required by the National Security Authority or designated Security Agency, e.g. reports on the holdings of NATO or National classified information;

- 27.2.10 apply to the Purchaser for approval before subcontracting any part of the work, if the subcontract would involve the subcontractor in access to NATO or National classified information, and to place the subcontractor under appropriate security obligations no less stringent than those applied to its own contract;
- 27.2.11 undertake not to utilise, other than for the specific purpose of the Order, without the prior written permission of the Purchaser or its authorised representative, any NATO or National classified information furnished to him, including all reproductions thereof in connection with the Order, and to return all NATO or National classified information referred to above as well as that developed in connection with the Order, unless such information has been destroyed, or its retention has been duly authorised with the approval of the Purchaser. Such NATO or National classified information will be returned at such time as the Purchaser or its authorised representative may direct;
- 27.2.12 classify any produced document with the highest classification of the NATO or National classified information disclosed in that document.

## **28. HEALTH, SAFETY AND ACCIDENT PREVENTION**

- 28.1 If the Purchaser notifies "Company" in writing of any non-compliance in the performance of the Order, with safety and health rules and requirements prescribed on the date of the Order by applicable national or local laws, ordinances and codes, and "Company" fails to take immediate corrective action, the Purchaser may order "Company" to stop all or part of the work until satisfactory corrective action has been taken. Such an order to stop work shall not entitle "Company" to an adjustment of the contract price or other reimbursement for resulting increased costs, or to an adjustment of the delivery or performance schedule.

## **29. RELEASE OF INFORMATION**

- 29.1 Except as otherwise specified elsewhere in the Order, and to the extent that it is demonstratively unavoidable and without prejudice to the "Security" Clause, "Company" or its employees shall not, without prior authorisation from the Purchaser, release any information pertaining to the Order, its subject matter, performance thereunder or any other aspect thereof.

## **30. FORCE MAJEURE**

- 30.1 If the performance of this Agreement, or any obligation hereunder is prevented, restricted or interfered with by reason of fire, flood, earthquake, explosion or other casualty or accident, strikes or labour disputes, war or other violence, including acts of terrorism, any law, order, proclamation, regulation, ordinance, demand or requirement of any governmental agency, or any other act, event or condition whatsoever beyond the reasonable control of the affected Party, the Party so affected, upon giving prompt notice to the other Party, shall be excused from such performance to the extent of such prevention, restriction or interference, provided, however, that the Party so affected shall take all reasonable steps to avoid or remove such cause of

non-performance and shall resume performance hereunder with dispatch whenever such causes are removed.

**31. RIGHTS IN TECHNICAL DATA**

31.1 Subject to the rights of third parties and to existing rights of "Company" arising otherwise than by virtue of the Order, and with due regard to national security regulations, all rights in the results of work undertaken by or on behalf of the Purchaser for the purposes of the Order, including any technical data specifications, report, drawings, computer software data, computer programmes, computer databases, computer software, documentation including software documentation, design data, specifications, instructions, test procedures, training material produced or acquired in the course of such work and, in particular, all rights, including copyright therein, shall vest in and shall be the sole and exclusive property of the Purchaser.

**32. COMPANY'S RESPONSIBILITY ON ACCURACY OF THE COMPANY'S DATA**

32.1 In case of change of any nature in "Company"s data including, but not limited to change(s) in name, ownership, address, and other changes of similar nature, "Company" is obliged to inform NCIA about the change(s) at the earliest possible moment that "Company" becomes aware of the change(s).

32.2 Information about all changes shall be presented in the form of official registered letter, addressed to NCIA Point Of Contact (POC), indicated in Clause 10 - Miscellaneous of the Part I - Special Provisions of the BOA.

32.3 In case if NCIA becomes aware of the change(s) described in para 1 above from any other source than official registered letter received from the "Company", NCIA reserves the right to suspend "Company"s BOA immediately after NCIA becomes aware of the change(s) and until the issue is fully clarified.

**APPENDIX 1 TO PART II - PURCHASER'S PRICING PRINCIPLES**

The following principles shall apply to all contracts not awarded on the basis of an adequate price competition as well as to all contract modifications.

"Company" shall also incorporate provisions corresponding to those mentioned herein in all subcontracts, and shall require price and cost analysis provisions be included therein.

A. Allowability of Costs

(1) Allowable Cost



A cost is allowable if the following conditions are fulfilled:

- (a) it is incurred specifically for the Agreement or benefits both the Agreement and other work or is necessary to the overall operation of the business although a direct relationship to any particular product or service cannot be established and is allocated to them in respective proportion according to the benefit received;
- (b) it is reasonable and expedient in its nature and amount and does not exceed that which would be incurred by an ordinary prudent person in the conduct of competitive business;
- (c) it is not liable to any limitations or exclusion as to types or amounts of cost items as set forth herein.

(2) Partially allowable cost

The following cost items are examples of costs which are normally partially allowable only as indirect costs within the limitations described below provided that such costs are reasonable in nature and amount and are allocated as indirect costs to all work of "Company".

- (a) Advertising costs.
- (b) Contributions.
- (c) Bonuses paid pursuant to an agreement entered into before the Order was made or pursuant to a plan established and consistently followed before the Order was concluded.
- (d) Depreciation of plant equipment or other capital assets.
- (e) Costs of normal maintenance and repair of plant, equipment and other capital assets.
- (f) The costs of general research and development work which are not chargeable directly to an Order and which are not aimed at the preparation or development of a specific product.
- (g) Travel costs, except those which, according to the terms of the Order, are to be charged directly to it.
- (h) Pre-contract cost (cost prior to the effective date stated in the Order) in anticipation of the award of the Order or pursuant to its negotiation.

(3) Unallowable costs

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In general all costs which cannot be shown by "Company" to be directly or indirectly of benefit to the Order under this Agreement are totally unallowable. Examples of such costs are:

- (a) Costs of a particular advertising campaign without prior agreement of the Purchaser or which has no connection with the Order under this Agreement.
- (b) Costs of remuneration, having the nature of profit sharing.
- (c) Costs of maintaining, repairing and housing idle and excess facilities.
- (d) Fines and penalties as well as legal and administrative expenses resulting from a violation of laws and regulations.
- (e) Losses on other contracts.
- (f) Costs incurred for the creation of reserves for general contingencies or other reserves (e.g. for bad debts, including losses).
- (g) Losses on bad debts, including legal expenses and collection costs in connection with bad debts.
- (h) Costs incurred to raise capital.
- (i) Gains and losses of any nature arising from the sale or exchange of capital assets other than depreciable property.
- (j) Taxes on profits.
- (k) Contractual penalties incurred.
- (l) Commissions and gratuities.
- (m) Interest on borrowings.

### B. Cost Groupings

- (1) In estimating or calculating the costs of the supplies to be furnished and the services to be performed under the Order, "Company" shall distinguish the following cost groupings:

- (a) Direct Costs

A direct cost is any cost which can be identified specifically with a particular cost objective as generally accepted. Direct costs are not limited to items which are incorporated in the end product as material or labour.

- (b) Indirect Costs

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An indirect cost is one which is not readily subject to treatment as a direct cost.

- (2) "Company" shall specify the allocation of costs to either of the cost groupings. The method by which costs are accumulated and distributed as part of direct or indirect costs cannot be modified during the duration of the Order.

C. Overhead Rates

- (1) Indirect costs, which as a rule are to be allocated to all work of "Company", shall be accumulated by logical cost groupings in accordance with sound accounting principles and "Company"'s established practices. Such costs shall be presented as overhead rates and be applied to each related direct cost grouping.
- (2) "Company" shall inform the Purchaser of its overhead rates and the basis upon which they were computed.
- (3) The term "provisional overhead rate" means a tentative overhead rate established for interim billing purposes pending negotiation and agreement to the final overhead rate.
- (4) An overhead rate is pre-determined if it is fixed before or during a certain period and based on (estimated) costs to be incurred during this period. An overhead rate is post-determined if it is fixed after a certain period and based on costs actually incurred during this period.

Pre-determined overhead rates shall be agreed upon as final rates whenever possible; otherwise the provisions of paragraph (3) above shall apply pending agreement to post-determined rates.

- (5) Such rates shall be determined on the basis of "Company"'s properly supported actual cost experience.
- (6) If the overhead rates of "Company" for similar contracts placed by national or international public services have been established or approved by a government agency or an agency accepted by "Company"'s Government and "Company" proposes the application of these rates, "Company" shall state the name and address of the agency which has accepted or approved the rates and the period for which they were established. If "Company" proposes rates which vary from the rates mentioned above, "Company" shall furthermore provide a justification for the difference.
- (7) If the overhead rates of "Company" for similar contracts placed by national or international public services have not been established or approved by a government agency or an agency accepted by "Company"'s government, "Company" shall provide the necessary data to support the proposed rates.

## **EXHIBIT A - ORDERING INFORMATION**

### **A ORDERING INFORMATION REQUIRED:**

All orders submitted under this Agreement shall contain, as applicable, the following information:

- a. Reference to the BOA.
- b. Identification and details of the Purchaser.
- c. Any special Terms and Conditions applicable to the Order (e.g. Payment, Warranty, etc.)
- d. Description of the Products to be delivered and/or of the Engineering Services to be performed (including labour categories, labour rates, people's names).
- e. Specification of the Requested Products Delivery Schedule and/or of the Engineering Services Period of Performance.
- f. Specification of the Products Delivery Location and/or of the Engineering Services Place of Performance.
- g. Shipping instructions.
- h. Security requirements.
- i. Completion of "Non-Transfer and Use Certificate" (e.g. DSP 83), Export License or equivalent, as applicable.
- j. Testing and Acceptance criteria and provisions.

**EXHIBIT B - AUTHORISATION TO USE BOA BY NATO CONTRACTORS**

Attn.: 'Company'\* Manager of Contracts

Subject: Order under NCIA/BOA/.....|Company'\* is hereby authorised to procure under Order No. (....), in accordance with NCIA Basic Ordering Agreement (NCIA/BOA/.....). Each Order placed shall quote the above-mentioned BOA, the appropriate Order Number and shall state:

"This Order is placed under NCIA/BOA/.....|. 'Company'\* hereby agrees that the terms and conditions contained in the NCIA/BOA/.....| shall govern the purchase/license of Products and/or Engineering Services covered by this Order, unless otherwise agreed between the Parties to this Order. 'Company'\* places this Order under written authorisation from [Name of Eligible Purchaser]. The Products and/or Engineering Services covered by the Order will be directly utilised by [Name of Eligible Purchaser]."

A copy of this authorisation will be sent to "Company".  
NCIA shall not be liable in any form for any Order issued and concluded between Purchaser, other than by NCIA itself, and 'Company'\*

**EXHIBIT C - PRODUCTS AND SERVICES**

|To be completed by the Company

Part I - a) Short Company Description

Part I - b) List and Short Description of offered Products and/or  
Services |



**Provision of Passive Network Structured Cabling for the  
Technical Facilities at the NCI Agency The Hague**

**RFQ-CO-115268-AFAP**

**BOOK II- PART V**

**STATEMENT OF WORK (SOW)**





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## **REFERENCED Statement of Work (SOW) ANNEXES**

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- B) ANNEX B WP4.1.2 PNWI for CSI Lab
- C) ANNEX C WP4.1.3 PNWI for JISR Lab
- D) ANNEX D WP4.1.4 PNWI for Service Support Centre
- E) ANNEX E WP4.1.5 PNWI for Shared Facility 5
- F) ANNEX F WP4.1.6 PNWI for Shared Facility 6
- G) ANNEX G WP4.2 Radio Cabling for NSII Lab
- H) ANNEX H WP4.3 PNWI for ITB (BMD) Lab
- I) ANNEX I WP4.4 PNWI and Infrastructure for STVF Lab

## **1 INTRODUCTION**

### **1.1. Background**

The refurbishment of the old NCI Agency building in The Hague (NLD) is due for completion by and handover from the Host Nation (HN) to NCI Agency in November 2020. The building includes the horizontal and vertical Structured Cabling System otherwise referred to as the Passive Network Infrastructure (PNWI) provided during building construction. This includes the backbone cabling from the server room or Main Equipment Room (MER) that terminate in patch racks in the specialist technical facilities also referred to as Laboratories (Labs). The Labs need to be fitted with Structured Cabling / PNWI and infrastructure specific to the individual needs of these areas.

### **1.2. Objectives**

The provision of the PNWI cabling shall meet the following objectives:

- 1.2.1. To integrate with the horizontal and vertical PNWI cabling installed by the HN to allow connection between the Labs and the MER and all required network domains.
- 1.2.2. To provide the additional internal PNWI cabling that meets the specified requirements for the following technical facilities:
  - a) JTS, ICC, ITC Lab
  - b) CSI Lab
  - c) JISR Lab
  - d) Service Support Centre
  - e) Shared Technical facilities
  - f) Radio cabling to NSII (SATCOM and Radio) Lab

- g) ITB (BMD) Lab
- h) STVF (AMDC2) Lab

**2. SCOPE OF WORK**

**2.1. Work Breakdown**

The Contractor shall deliver in the quantities and to the location and at the time specified in the Schedule of Supplies and Services (SSS) and perform the work described in the following work packages (CLIN):

- 2.1.1. Work Package 4.1.1 (CLIN 1) – PNWI for JTC, ICC, ITC Lab
- 2.1.2. Work Package 4.1.2 (CLIN 2) – PNWI and server components for the CSI Lab
- 2.1.3. Work Package 4.1.3 (CLIN 3) – PNWI for the JISR Lab
- 2.1.4. Work Package 4.1.4 (CLIN 4) – PNWI for the Service Support Centre
- 2.1.5. Work Package 4.1.5 (CLIN 5) – PNWI for Shared Facility 5
- 2.1.6. Work Package 4.1.6 (CLIN 6) – PNWI for Shared Facility 6
- 2.1.7. Work Package 4.2 (CLIN 7) – Radio Cabling for NSII Lab
- 2.1.8. Work Package 4.3 (CLIN 8) – PNWI and Infrastructure for ITB (BMD) Lab
- 2.1.9. Work Package 4.4 (CLIN 9) – PNWI and Infrastructure for STVF Lab

**2.2. Purchaser Furnished Equipment/Information**

- 2.2.1. The following items will be provided by the Purchaser as Purchaser Furnished Equipment/Information (PFE/I):
  - a) Building floor plans and schematics.
  - b) Racks and cabinets, except where specified in Annexes.
  - c) Waste and recycling containers.

**2.3. Schedule**

The following schedule shall be used for planning purposes for all WP in paragraph 2.1 above (EDC - Effective Date of Contract).

<b>Task Name</b>	<b>Schedule</b>
Contract Award	EDC
Equipment Delivery	EDC +8W
Installation Complete	EDC +16W
Test	EDC +17W
Acceptance	EDC +20W

### **3. WORK PACKAGE REQUIREMENTS**

#### **3.1. General Requirements**

3.1.1. The Contractor shall comply with the requirements, specifications and standards provided in the SOW Annexes A through I.

- 1) Annex A: Work Package 4.1.1. – Install Structured Cabling in the JTC, ICC, ITC Lab
- 2) Annex B: Work Package 4.1.2 – Install PNWI Cabling and Racks components for the CSI Lab
- 3) Annex C: Work Package 4.1.3 – Install PNWI Cabling for the JISR Lab
- 4) Annex D: Work Package 4.1.4 - Install PNWI Cabling for the Services Support Centre
- 5) Annex E: Work Package 4.1.5 - Install PNWI Cabling for Shared Facility 5
- 6) Annex F: Work Package 4.1.6 - Install PNWI Cabling for Shared Facility 6
- 7) Annex G: Work Package 4.2 - Radio Cabling for NSII Lab
- 8) Annex H: Work Package 4.3 - PNWI for ITB (BMD) Lab
- 9) Annex I: Work Package 4.4 - PNWI for STVF Lab

#### **3.2. WP4.1.1 – Install PNWI cabling in the JTS/ICC/ITC Lab**

- 3.2.1. The Contractor shall design, supply, install and test the structured cabling in accordance with the designs in Annex A and the SSS CLIN 1.
- 3.2.2. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.2.3. The Contractor shall fully document the installed cable ducting and components to meet the requirements, standards and specifications as described in Annex A, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.2.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.2.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the

successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.

- 3.2.6. The contractor shall provide quotes for the optional equipment and works (labour) specified in Annex A. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.3. WP4.1.2 – Install PNWI Cabling for the CSI Lab**

- 3.3.1. The Contractor shall design, supply, install and test the structured cabling in accordance with the designs in Annex B and the SSS CLIN 2.
- 3.3.2. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.3.3. The Contractor shall fully document the installed cable ducting and components to meet the requirements, standards and specifications as described in Annex B, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.3.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.3.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.
- 3.3.6. The contractor shall provide quotes for the optional equipment and works (labour) specified. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.4. WP4.1.3 - Install PNWI Cabling for the JISR Lab**

- 3.4.1. The Contractor shall design, supply, install and test the structured cabling in accordance with the designs in Annex C and the SSS CLIN 3.
- 3.4.2. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and

shall provide the results and certificates of compliance as proof before acceptance is agreed.

- 3.4.3. The Contractor shall fully document the installed cable ducting and components to meet the requirements, standards and specifications as described in Annex C, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.4.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.4.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.

### **3.5. WP4.1.4 - Install PNWI Cabling for the Services Support Centre**

- 3.5.1. The Contractor shall design, supply, install and test the structured cabling in accordance with the designs in Annex D and the SSS CLIN 4.
- 3.5.2. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.5.3. The Contractor shall fully document the installed cable ducting and components to meet the requirements, standards and specifications as described in Annex D, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start.. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.5.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.5.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.

- 3.5.6. The contractor shall provide quotes for the optional equipment and works (labour) specified. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.6. WP4.1.5 - Install PNWI Cabling Shared Facility 5**

- 3.6.1. The Contractor shall supply and install the PNWI Structured Cabling System to meet the requirements, standards and specifications as described in Annex E and SSS CLIN 5.
- 3.6.2. The Contractor shall fully document the PNWI Structured Cabling System, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.6.3. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.6.4. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.6.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.
- 3.6.6. The contractor shall provide quotes for the optional equipment and works (labour) specified. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.7. WP4.1.6 - Install PNWI Cabling for Shared Facility 6**

- 3.7.1. The Contractor shall supply and install the PNWI Structured Cabling System to meet the requirements, standards and specifications as described in Annex F and SSS CLIN 6.
- 3.7.2. The Contractor shall fully document the PNWI Structured Cabling System, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.



- 3.7.3. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.7.4. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.7.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.
- 3.7.6. The contractor shall provide quotes for the optional equipment and works (labour) specified. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.8. WP4.2 - Install Cabling and Components for the NSII Lab Radio Antennas**

- 3.8.1. The Contractor shall supply and install the Radio antenna cabling and components to meet the requirements, standards and specifications as described in Annex G.
- 3.8.2. The Contractor shall fully document the Cabling and components, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.8.3. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.8.4. The Contractor shall perform testing of the Cabling to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.8.5. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.

### **3.9. WP4.3 Install PNWI Cabling for the ITB (BMD) Lab**

- 3.9.1. The Contractor shall supply and install the PNWI Structured Cabling System to meet the requirements, standards and specifications as described in Annex H.
- 3.9.2. The Contractor shall supply and install the racks and rack components in the server room area to meet the requirements, standards and specifications as described in Annex H.
- 3.9.3. The Contractor shall fully document the PNWI Structured Cabling System, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.
- 3.9.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.9.5. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.9.6. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.
- 3.9.7. The contractor shall provide quotes for the optional equipment and works (labour) specified. The purchaser will confirm whether options are to be fulfilled before works are due to commence.

### **3.10. WP4.4 - Install PNWI Cabling, Rack and Components for the STVF Lab**

- 3.10.1. The Contractor shall supply and install the PNWI Structured Cabling System to meet the requirements, standards and specifications as described in Annex I.
- 3.10.2. The Contractor shall supply and install the racks and rack components in the server room areas to meet the requirements, standards and specifications as described in Annex I.
- 3.10.3. The Contractor shall fully document the PNWI Structured Cabling System, and shall provide the editable electronic copies of the documentation (i.e. Excel, Word, AutoCad etc.) at least one week before



the testing activities start. This documentation shall include, at minimum, the cable routing, cable types/quantities, cable identification.

- 3.10.4. The Contractor shall provide identifiers (i.e. labelling, or marking) on the cables, ducts, and exit/entry points to enable the easy identification between the documentation and the actual installation.
- 3.10.5. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof before acceptance is agreed.
- 3.10.6. The Contractor shall provide a Project Manager (PM) who is responsible for managing and coordinating all Contractor tasks to ensure the successful implementation of the activities outlined in this SOW. The PM shall be readily available to respond to purchaser communications within 24 hours (Monday to Friday) and shall provide weekly progress reports identifying risks, issues and proposed actions.

## **4. INTEGRATED LOGISTICS SUPPORT**

### **4.1. Introduction**

- 4.1.1. The following Integrated Logistics Support (ILS) requirements shall apply for the equipment and services specified. This includes all equipment and services in the base Contract, as well as all equipment and services provided under an Option, if such Option is exercised by the Purchaser.

### **4.2. Shipping and Transportation**

- 4.2.1. All goods delivered under the Contract, including items being returned after warranty repair shall be shipped to NCI Agency, The Hague (NLD) as directed by the Purchaser, at no cost to the Purchaser, or as otherwise detailed in the Contract.
- 4.2.2. All materials covered under the Contract, including items being returned after warranty repair, shall be shipped at the expense of the Contractor Delivered Duty Paid (DDP) to the addresses specified in accordance with current INCOTERMS published by the International Chamber of Commerce.
- 4.2.3. The Purchaser shall not be liable for any storage, damage or any other charges involved in such transportation of supplies prior to the actual acceptance of such supplies at destination.
- 4.2.4. The Purchaser will not accept responsibility and/or ownership of the equipment before acceptance is complete.

4.2.5. The Purchaser's Point of Contact (POC) for all shipment instruction and shipment requests is:

Mrs. Derya Adiyen (NCI Agency/ILS Office)  
Tel: + 31 7 374 3920  
E-mail: <derya.adiyan@ncia.nato.int>

4.2.6. Each shipment shall be composed of one batch of one or more pallets. A pallet shall be defined as the standard Euro-pallet (EUR/EPAL; 1200mm x 800mm), packed to a height as close as practicable to a total maximum height of 1800mm, and not exceeding a total weight of 1000 Kg.

### 4.3. Preservation and Packaging

4.3.1. The Contractor shall, for the purpose of transportation, package, crate or otherwise prepare the various deliverables in accordance with the best commercial practices for the types of deliverables involved, giving due consideration to shipping and other hazards associated with the transportation of consignments overseas.

4.3.2. The Contractor shall establish the packing lists in such a way to permit easy identification. These packing lists shall accompany the shipment. Each individual container/box from a consignment shall have a packing list in a weatherproof envelope attached to the outside of each container/box detailing its contents. A second copy of the list is required inside each container/box.

4.3.3. The packing list shall include the following information as a minimum:

Serial	Requirement
1	The Shipping Address
2	Package Number
3	Contract Number
4	CLIN Number as per Schedule of Supply and Services
5	Item Description
6	Part Number
7	Serial Number
8	Quantity
9	Weight and Volume details
10	Box number and number of boxes in the consignment
11	Name and address of the Contractor, Purchaser and Consignor

### 4.4. Customs Forms 302

- 4.4.1. The Contractor shall be responsible for the timely request of Custom Forms 302, required for duty free import/export of supplies between EU and Non-EU countries. The written request for a 302 form shall contain the following information:

Serial	Requirement
1	Purchaser Contract Number
2	Contract Line Item Number (CLIN), designation and quantities
3	Destination
4	Number and gross weight
5	Consignor's and Consignee's name and address.
6	Method of shipment, i.e. road, air, sea, etc.
7	Name and address of the freight forwarder
8	POC to receive the Form 302

- 4.4.2. The Contractor shall ensure that forwarding agents are informed of the availability of Form 302 and how this form is utilised to avoid the payment of Customs Duties. Form 302 must be added to the shipment documents to be provided to the carrier.
- 4.4.3. Following receipt of the request by the Purchaser, normally ten (10) working days are required for the issue of the form.
- 4.4.4. These forms shall be originals and must be mailed or delivered by mail/express courier.
- 4.4.5. If an express courier has to be used by the Purchaser to ensure that the form is available on time before shipment, all associated costs shall be reimbursed by the Contractor.
- 4.4.6. If a Country refuses to accept the Form 302 and requires the payment of custom duties, the Contractor shall immediately inform the Purchaser by the fastest means available and obtain from the Custom Officer a written statement establishing that its country refuses to accept the Custom Form 302.
- 4.4.7. Only after having received Purchaser's approval, the Contractor shall pay these customs duties and shall claim reimbursement from the Purchaser.
- 4.4.8. The carrier shall be fully conversant with the application and use of Custom Form 302.
- 4.4.9. The Contractor shall add the Custom Form 302 to the shipping documentation.

4.4.10. It shall be noted that documents have to be originals which need to be available for the goods to cross Customs.

**4.5. Notice of Shipment**

4.5.1. One (1) week prior to the delivery of any shipment of supplies, the Contractor shall provide Notice of Shipment to the Purchaser’s ILS Office and to such other persons as are designated, in accordance with the instruction of the Purchaser. This notice shall be provided electronically and shall include the following information:

Serial	Requirement
1	Purchaser Contract Number
2	Contract line Item Number (CLIN), designation and quantities
3	Items Description, Quantity and Manufacturer Part Number
4	Destination
5	Number of packages/containers, dimensions and gross weight
6	Consignor’s and Consignee’s name and address
7	Mode of shipment, e.g., road, air sea, etc.
8	Date of shipment
9	Number of the Form 302 used (if required)

**4.6. INVENTORY**

4.6.1. The Contractor shall provide the full and complete inventory/Material Data Sheet (MDS) of all items and documents to be delivered under this Contract at least ten (10) (preferably twenty (20) working days before shipment. It shall contain the following information:

Field	Description
CLIN	Contract Line Item Number (number-10 digits maximum). Sequence number assigned to a particular line item in a given contract. The combination CLIN-Contract No. shall always be unique.
Nomenclature	Short Item Description (text- 35 digits). Should always start with the main item name followed if possible by a technical specification, followed by the next higher assembly names in hierarchical order, separated by commas. E.g. for a coax connector of a television cable the nomenclature should read: CONNECTOR, COAX, CABLE, TELEVISION.
EQRE (XB/ND)	Code (text-2 digits). Defines whether an item is repairable (ND) or not (XB) from a technical point of view.
True Manufacturer Part Number	True Manufacturer P/N (text-32 digits). Part Number given to this item by the original manufacturer.

Field	Description
True Manufacturer Code (or complete name and address )	True Manufacturer Code (text-5 digits). Code of the Company that has manufactured this item. This is an internationally recognized 5-digit code which is unique to that company. It corresponds to the "cage code" in the USA. Manufacturer Codes and Cage Codes are obtainable from the national governmental authorities or, if it already exists, from the "NATO Master Cross-Reference List" (NMCRL) obtainable from NAMSA. In case the code cannot be obtained, it will be sufficient to enter the complete name and address information of the true manufacturer.
Vendor/Contractor Code (or complete name and address)	Vendor (Contractor) (text-5 digits). Company which sells the item or the complete system to which this item belongs. The vendor is the company with which the Contract is placed but is not necessarily the true manufacturer of the item. If the vendor company has also designed and integrated the complete system it is also known as Original Equipment Manufacturer (OEM). The company code is an internationally recognized 5-digit code which is unique to that company. It corresponds to the "cage code" in the USA. Manufacturer Codes and Cage Codes are obtainable from the national governmental authorities or, if it already exists, from the "NATO Master Cross-Reference List" (NMCRL) obtainable from NAMSA. In case the code cannot be obtained, it will be sufficient to enter the complete name and address information.
Vendor/Contractor Part Number	Vendor (Contractor) P/N (text-32 digits). Part Number given to this item by the company which sells the item or the complete system to which this item belongs. The vendor is the company with which the Contract is placed but is not necessarily the true manufacturer of the item.
QTY ordered	Item Quantity (number-5 digits). Shows the quantity of this item ordered as individual item in this contract, i.e. if it is not delivered built-in in another unit.  In case the item is not ordered as individual item or as spare unit but is built-in in another assembly, enter "0" (zero) in this field and complete fields: "Part Number of next higher assembly" and "qty in next higher assembly".  Serialized items shall only have a quantity of 1.
Order Unit	Order Unit (text-2 digits). Unit under which the item is sold, e.g. each, set, meter, etc.
Serialized Item Tag	Serialized Items Tag (text-1 digit). Add a "Y" if the item carries a serial number independently whether serial numbers is already known or not. If known, complete column "Serial Number".
Serial Number	Serial Number. If Serialized Item Tag is "Y" (yes) then add serial number here. (1 serial number per line). If system is already installed, then the Contractor shall indicate here the serial numbers installed at user site. For items to be delivered to depots the Contractor may not know the serial number in advance, in that case it will be completed by the receiving site.
Serial Number Software Revision Level	Software Revision Level (text- 30 digits but can be expanded as necessary) If item carries a serial number and field "serial number" is completed, add SW revision level / version here if appropriate.



Field	Description
Serial Number Hardware Revision Level	Hardware Revision Level (text- 30 digits but can be expanded as necessary) If item carries a serial number and field "serial number" is completed, add HW revision level / version here if appropriate.
Other Serial Number attributes	Other Serial Number Attributes (text-to be defined). This field will be used and defined on a case by case basis to be decided by NCI Agency System Manager, NCI Agency and the Contractor for other attributes which might be required for a particular system.
Subject to Property Accounting	NDSS-MRCS (text-1 digit). NCI Agency will decide whether or not item is subject to property accounting and is to appear on the purchaser balance lists. This field will be completed Y or N by NCI Agency.
Currency	Currency (text-3 digits). International 3-digit code (ISO) representing the currency in which the item purchase price (or the estimated value) is expressed.
Price	Item Price (number-11 digits). Unit price with 2 decimals.
Warranty Expiration Date	Warranty Expiration Date (date: DD/MM/YY). Shows the date on which the warranty of this item expires, which is usually N days after delivery of the item. If delivery is scheduled for a certain date, warranty expiration date = delivery date + warranty period in days.
Receiving / Inspection Depot	Receiving / Inspection Depot (TXT-2 digits). Information will be provided to Contractor by the Purchaser's ILS Officer. This is the depot to where the vendor ships the material. Normally this depot will receive, inspect and put the material in stock against Dues-In to be created in accordance with Qty in column "Qty Ordered". In case of a deviation from this rule, the Purchaser will inform the Contractor of the correct final Depot and through which depot the items shall have to transit.
Issue to purchaser	Purchaser Code (text-4 digits - to be completed by NCI Agency). Code representing the purchaser to which the item(s) shall be shipped by the receiving/ inspecting depot.
Extended Line Item Description	Extended Line Item Description (text-no limit). Any additional information concerning this item shall be entered here, e.g. technical specifications, configuration, reference to technical drawings or manuals etc....
Part Number of next higher assembly	Part-Number of Next Higher Assembly (text-32 digits) If item is built-in another assembly, indicate part number of that assembly here.
Qty in next higher assembly	Quantity in Next Higher Assembly (number-3 digits max). This field shows the built-in quantity of the item in the next higher assembly. This information shall be provided for configuration control purposes.
Qty installed at Operating Unit (Purchaser Site)	Quantity installed. This field is only applicable when the delivery is direct to an operating unit (purchaser site). However in that case it is mandatory.  For non-serialized items it shows total quantity installed.  For serialized items quantity shall only be one per serial number. Use a new line for each serial number.

4.6.2. The Contractor may request an electronic version of the MDS to be provided by the Purchaser at EDC.



#### **4.7. Technical Documentation**

- 4.7.1. Each deliverable shall be accompanied with its COTS documentation. This documentation shall be identified in the inventory.
- 4.7.2. All documentation shall be in the English language.

#### **4.8. Warranty & Support**

- 4.8.1. The Contractor shall provide warranty of the installation and all supplies procured under this Contract for a period of 12 months. Where a manufacturer provides a longer warranty period, this is to be specified.
- 4.8.2. The Warranty shall start at the date of Purchaser acceptance of the installation and equipment at the designated labs.
- 4.8.3. The Contractor shall have a technician on-site within 48 hours of the warranty claim. The support/warranty shall include cost of parts, travel and per diem and shall not attract extra cost to the Purchaser. Responsive local on-site support shall be provided for the installed items at NCI Agency in The Hague.
- 4.8.4. The Contractor shall provide detailed handling instructions, including telephone help-desk, email or other Point of Contact information, to be contacted in case of a warranty claim.
- 4.8.5. The Contractor shall provide shipment address for faulty equipment to the Purchaser. The shipment of faulty equipment to the Contractor is at the expense of the Purchaser. The shipment of repaired or replaced equipment from the Contractor to the Purchaser's place of origin shall be at the expense of the Contractor.
- 4.8.6. The Contractor shall further be responsible for the provision of any alternatives or superseding items should the original part be no longer available during the Warranty period, ensuring form, fit and functional requirements.

#### **4.9. Quality Assurance**

- 4.9.1. Upon Purchaser request, the Contractor shall provide evidence that its QA/QC organization in his company has sufficient inherent authority and visibility in the overall corporate structure to properly execute the QA Management of a project of this size.
- 4.9.2. Upon Purchaser request, the Contractor shall address the QA/QC he applies to this project and shall describe its internal process for the quality review of the deliverables before their release to the Purchaser.



## Appendix A Acronyms

Abbreviation	Content
CLIN	Contract Line Item Number
DDP	Delivered Duty Paid
EDC	Effective Date of Contract
HN	Host Nation
ILS	Integrated Logistics Support
IV&V	Independent Verification and Validation
MER	Main Equipment Room
NCIA	NATO Communications and Information Agency
NR	NATO RESTRICTED
NS	NATO SECRET
NS REL	NATO SECRET
NSII	Network Services and IT Infrastructure
NU	NATO UNCLASSIFIED
PM	Project Manager
PSC	Project Service Costs
PFE/I	Purchaser Furnished Equipment/Information
PNWI	Passive Network Infrastructure
SL	Service Line
SOW	Statement Of Work
SSS	Statement of Supplies and Services
WP	Work Package



## Annex A - CO-115268-AFAP Work Package 4.1.1: JTS-ICC-ITC Lab Structured Cabling Requirements

**Section 1 – JTS-ICC-ITC Technical Facility A5–130 Purpose.** The JTS-ICC-ITC technical facility will be shared by three separate capabilities: JTS, ICC and ITC. The JTS-ICC-JTS Technical Facility (A5-130) can be seen in figure 1. The JTS-ICC-ITC Technical Facility is a multi-purpose areas that require the ability to configure connections to any NATO system and security domain and the Internet via a patch rack in room A5-310 that is connected to the Main Equipment Room (MER) in the basement.

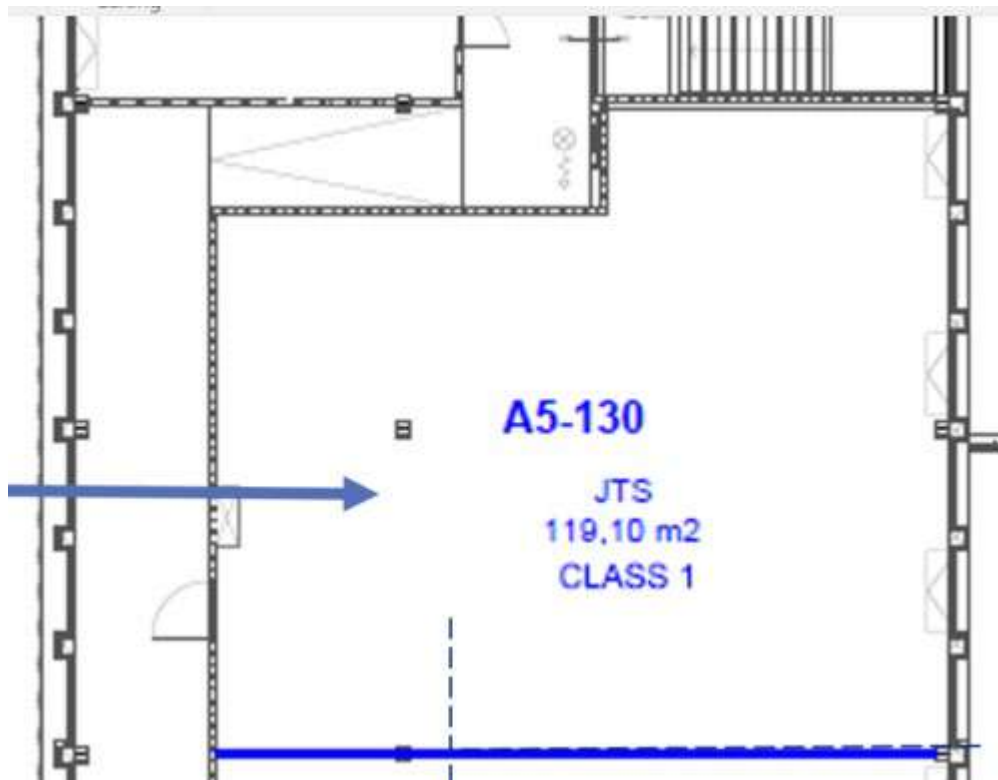


Figure 1 – Room Designation

**Section 2 – Current As-Built Drawing.** Technical drawing showing HN as built infrastructure under the floor plus the location of the patch rack at the bottom right corner. Connections to the patch rack from the MER are provided. The scope of this Statement of Work (SOW) extends from the patch rack to specified areas of the facility under the raised floor.

## A5-180 HN as-built plan

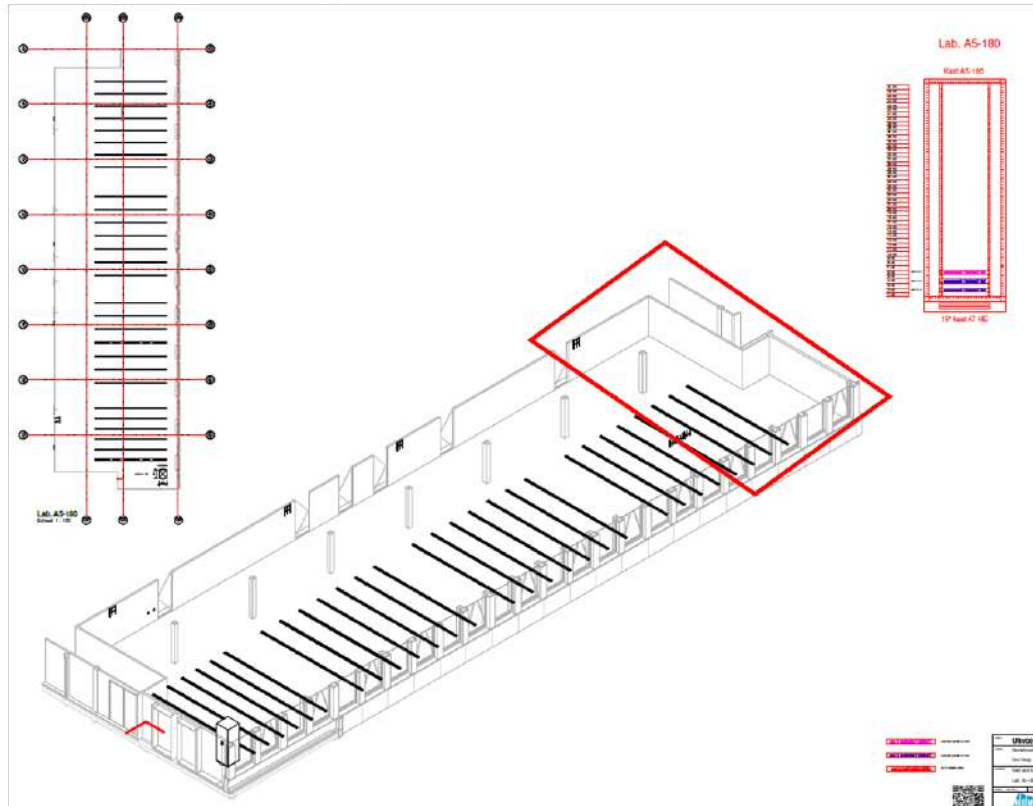


Figure 2 – Facility Layout

**Section 3 – Technical details.** Each of the work positions in the technical facility areas is to be connected by one fibre optic<sup>1</sup> pair and/or one CAT x<sup>2</sup> copper cable. Connections will extend from a switch in a patch rack to a multi-port distribution box under the floor. Patch leads will connect from each port on the distribution box to a desktop power and cabling adapter (NCI Agency responsibility). Each distribution box will serve up to four clients plus meeting tables:

- a) Patch panels/switches installed in a 43U patch rack connected to the MER provided by the client.
- b) OM4 FO pairs provided by supplier.
- c) CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes provided by supplier.
- e) Patch leads OM4 and CAT 6 from distribution boxes to desktop adapter provided by supplier in 5-meter lengths.

<sup>1</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>2</sup> Type of copper cable such as CAT 6a to be agreed

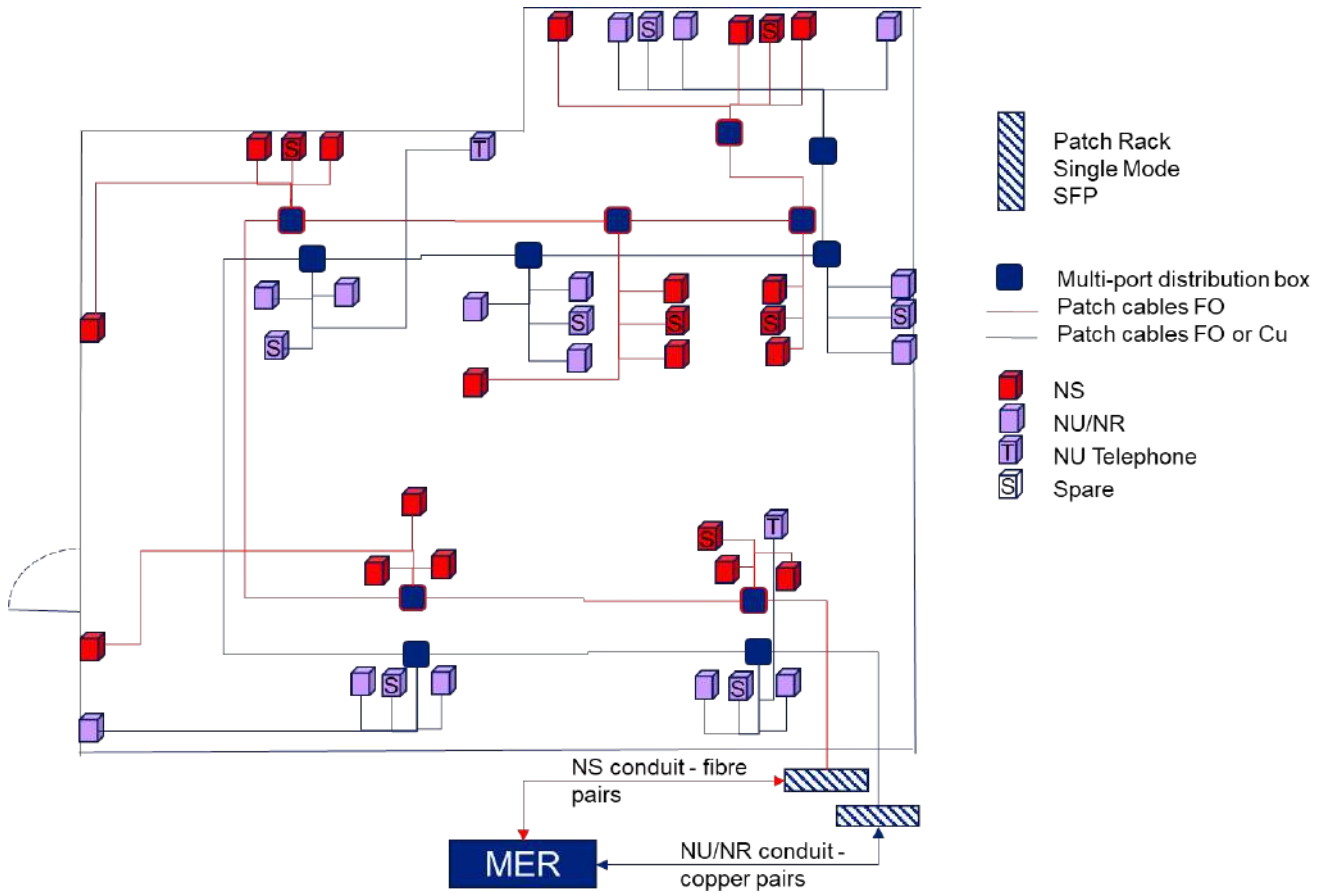


Figure 3 – Cabling Schematic

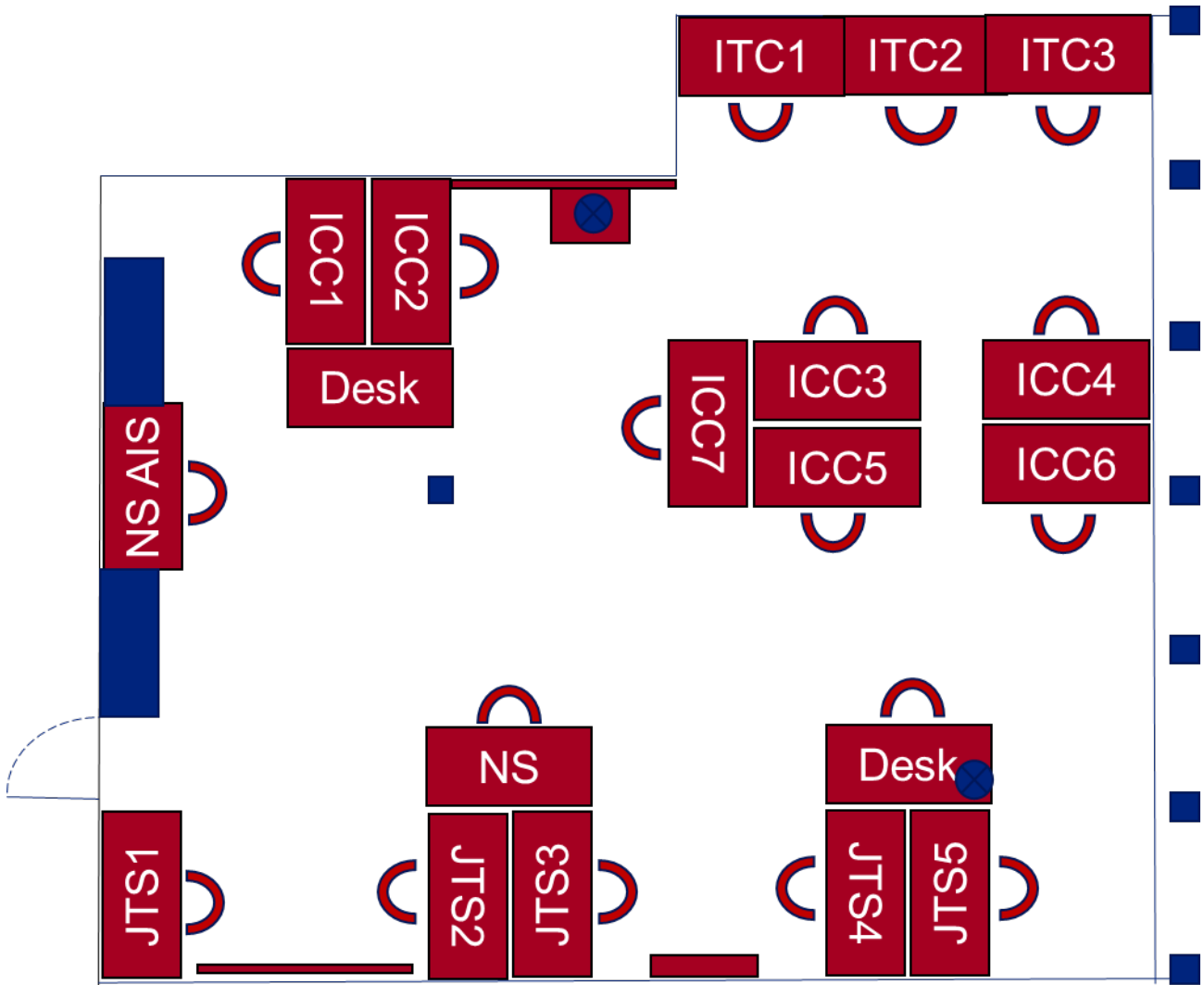


Figure 3 – Room planned layout

Equipment	Quantity
JTS RED Client positions	5
ICC RED Client positions	7
ITC RED Client positions	3
Shared RED-WAN Client	1
Shared Red Client	1
Spare RED positions / conference desk	5
<b>Total Red connections</b>	<b>22</b>
JTS Black Client positions	5
ICC Black Client positions	7
ITC Black Client positions	3
Spare Black positions / conference desk	6
Phone	2
<b>Total Black connections</b>	<b>23</b>

## Section 4 – Detailed work packages.

### Fibre Optic pairs

- a. [JTS-A5130-Cbl-01] The contractor shall calculate, deliver and install under the floor twenty-two (22) pairs of OM4 fibre optic cables to be connected from Patch Rack One Red switches to distribution boxes under/near every desk. Distribution boxes will provide four (4) ports to allow patch leads to be connected leading to desks.
- b. [JTS-A5130-Cbl-02] The contractor shall calculate, deliver and install under the floor twenty-two (22) pairs of OM4 fibre optic cables patch leads connected from the distribution boxes located under/near desks to the desktop adaptors.
- c. [JTS-A5130-Cbl-03] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; A5130F followed by the desk/client number. For example [A5130F-01].
- d. [JTS-A5130-Cbl-04] One (1) pair will be connected to the Red switch (email) shown in figure 3 in Patch Rack 1 in room A5-310.
- e. [JTS-A5130-Cbl-05] Twenty-one (21) pairs will be connected to the engineering environment via the Red switch in Patch Rack 1 on room A5-310.
- f. [JTS-A5130-Cbl-06] The contractor shall calculate, deliver and install coiled up under the floor six (6) pairs of OM4 fibre optic cables patch leads connected to the distribution boxes.

### Copper pairs

- g. [JTS-A5130-Cbl-07] The contractor shall calculate, deliver and install under the floor twenty-three (23) CAT 6A cables connected from the Patch Rack Black switch to distribution boxes to be located under/near every desk. Distribution boxes will provide 4 ports to allow patch leads to be connected leading to desks.
- h. [JTS-A5130-Cbl-07] The contractor shall calculate, deliver and install under the floor twenty-three (23) pairs of CAT6A cables patch leads connected from the distribution boxes located under/near desks to the desktop adaptors.
- i. [JTS-A5130-Cbl-07] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; A5130C followed by the desk/client number. For example [A5130C-01].
- j. [JTS-A5130-Cbl-10] Two (2) pairs of cables will be connected to phones on conference desks.
- k. [JTS-A5130-Cbl-11] Twenty-one (21) pairs of cables will be connected to the Black switch in Patch Rack 1 in room A5-310.
- l. [JTS-A5130-Cbl-12] The contractor shall calculate, deliver and install coiled up under the floor six (6) pairs of CATx copper cables connected to the distribution boxes.

### Testing

- m. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

### Option

- n. [JTS-A5130-Opt-13] The contractor shall provide a quote as an option to deliver and install two fixed display monitors plus power and HDMI cables (10 metre length) in a wall mounted duct to connect to workstations. Locations and workstations will be confirmed by the purchaser if this option is required.
- o. [JTS-A5130-Opt-14] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

## Annex B - CO-115268-AFAP Work Package 4.1.2: CSI Lab Structured Cabling Requirements

**Section 1 – CSI Technical Facility A5-170 Purpose.** The CSI technical facility will be divided into two components, a Rack area and a development / test / preparation area. The CSI Technical Facility (A5-170) can be seen in figure 1. The CSI Technical Facility is a multi-purpose area that requires the ability to configure connection to any NATO system and security domain and the Internet via patch racks located in room A5-310 that connect to the Main Equipment Room (MER) in the basement.

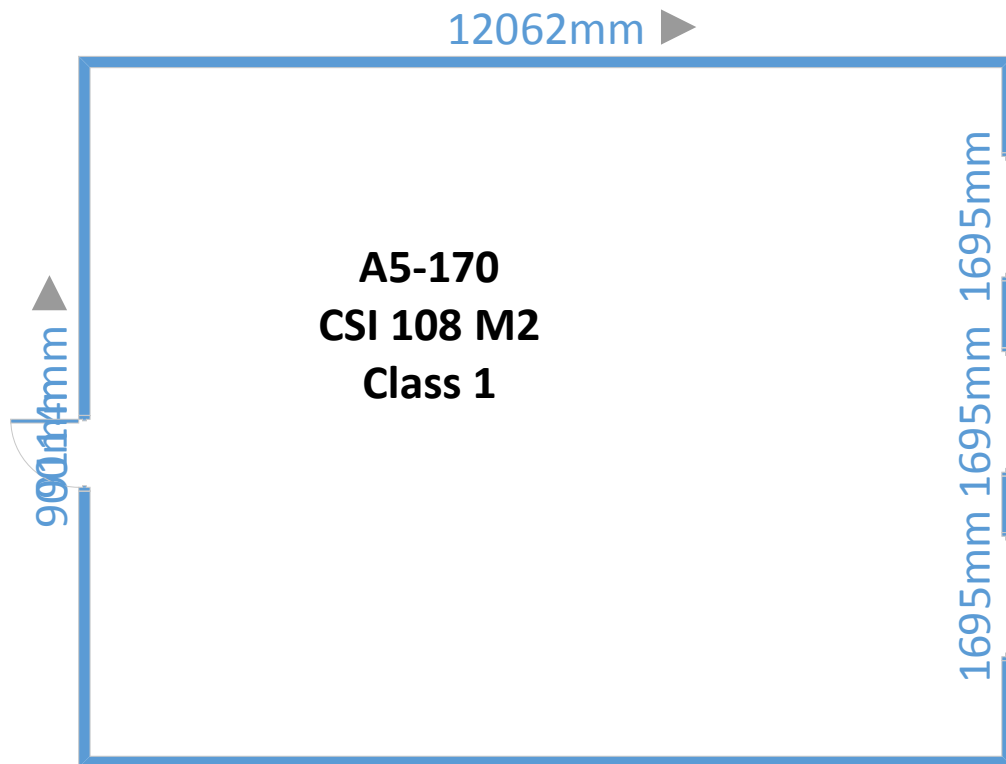


Figure 1 – Room Designation

**Section 2 – Current As-Built Drawing.** Technical drawing showing HN as built infrastructure under the floor plus the location of the patch rack at the bottom right corner. Connections to the patch rack from the MER are provided. The scope of this Statement of Work (SOW) extends from the patch rack to specified areas of the facility under the raised floor.

### A5-180 JISR Lab - as-built plan

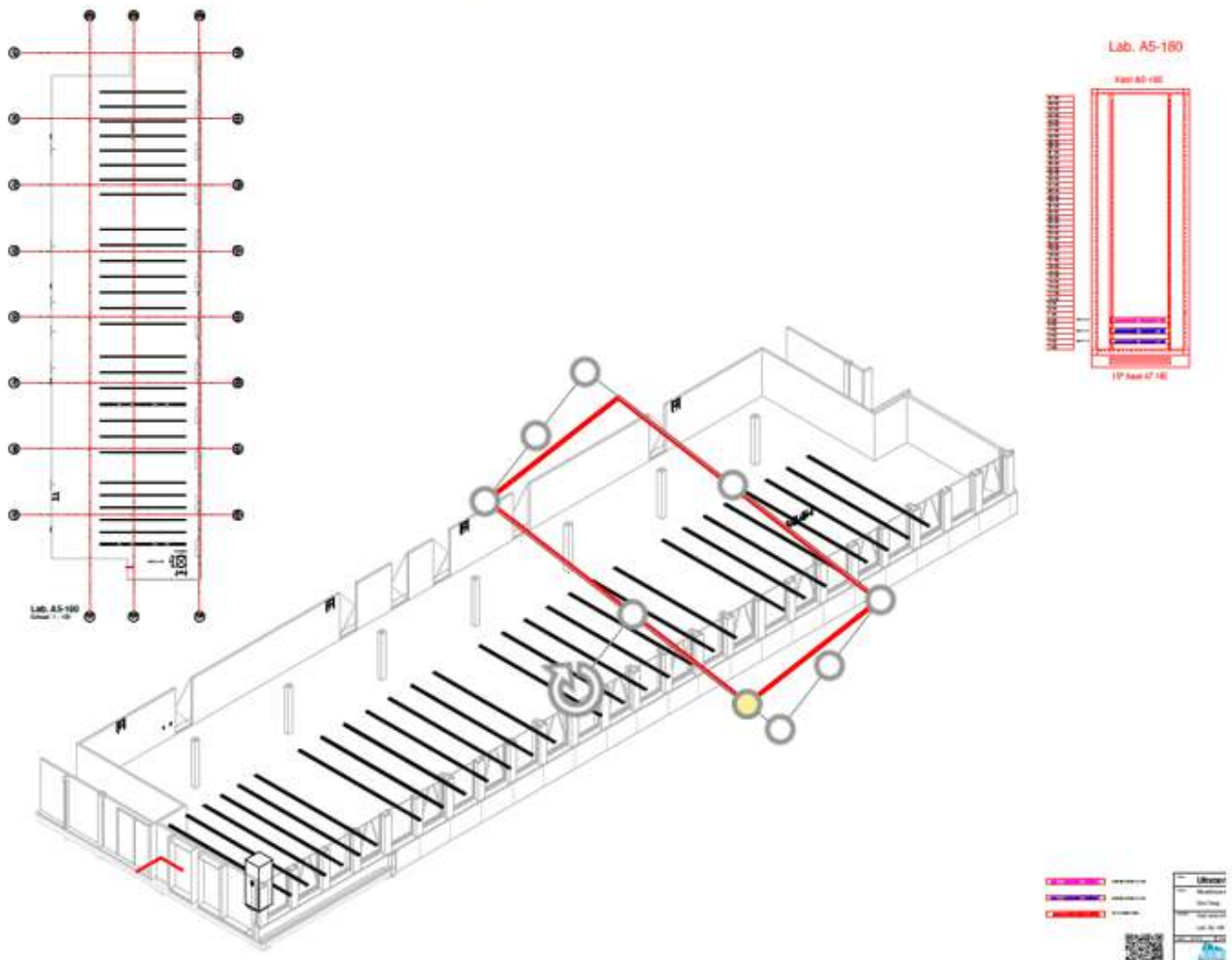


Figure 2 – Facility Layout



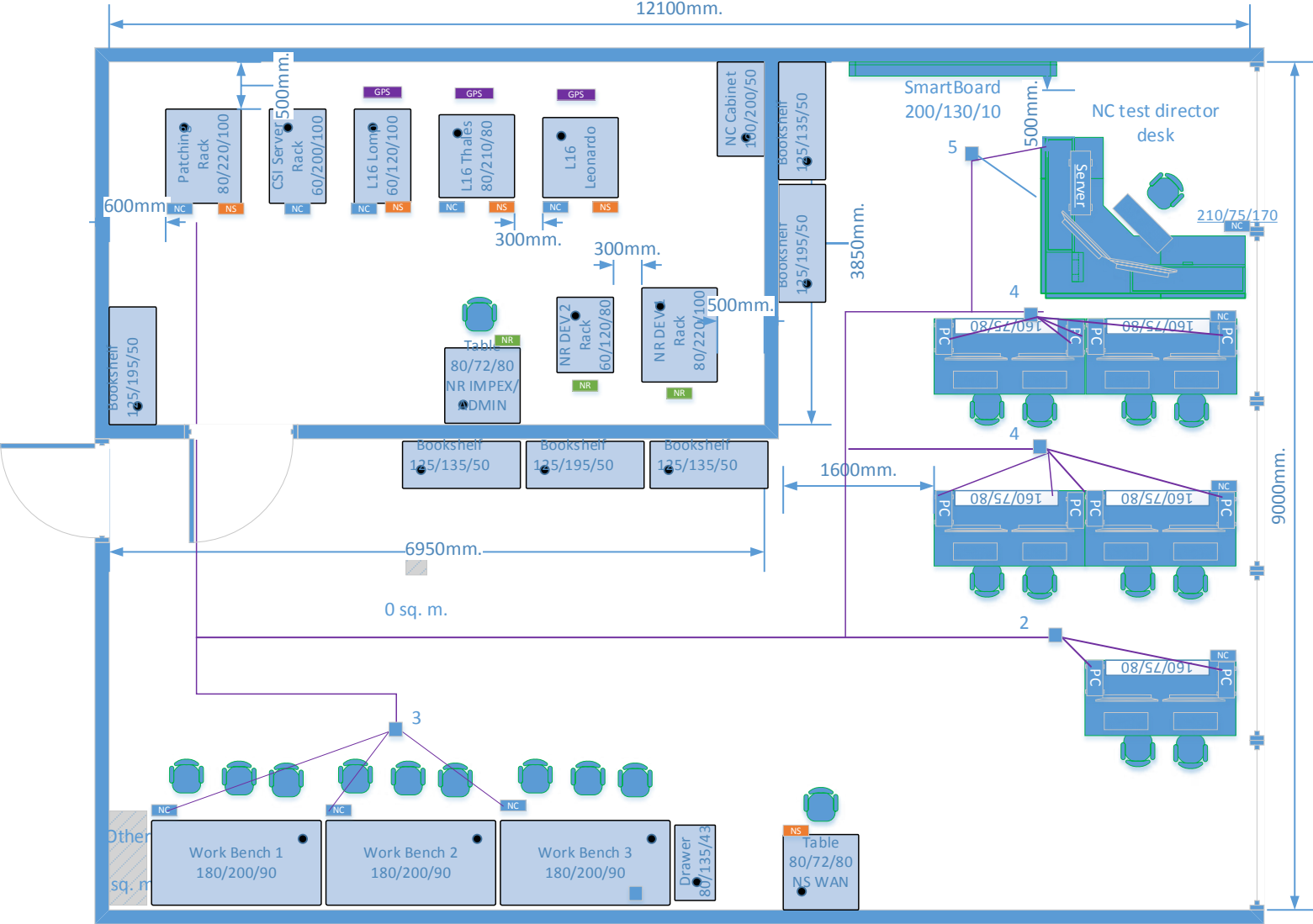


Figure 3 – A5-170 Partition

Figure 3 details the positioning of the partition wall and the positions of the racks. The desks that will provide the workstation positions are as shown. The partition wall will be installed after the cabling works are completed. The cabling work needs to respect the position of the internal walls.

### **Section 3 – Technical details.**

The Rack area contains:

- 7 racks
- 2 cabinets shown to indicate position only
- 1 work position (IMPEX)

### **Connections to Patch Racks in Room A5-310**

#### **CSI Patching Rack**

The following connections are required between Patch Rack 1 and the CSI Patching Rack:

- a. One single fibre optic pair (CSI NC) from the CSI patch rack switch to Patch Rack 1 in A5-310. The contractor shall install the cable duct containing the FO pair between the CSI patch rack and Patch Rack 1, the pair shall not be connected to any rack components.
- b. Four (4) fibre optic pairs between the CSI patching rack and Patch Rack 1 Red switch in room A5-310. The four FO pairs will enter the CSI Patch rack into a 4-port FO distribution box supplied by the purchaser.
- c. Two (2) CAT6 copper pairs to the Black switch in Patch Rack 1 in A5-310. The two pairs will enter the CSI Patch rack into a 4-port distribution box supplied by the purchaser. The contractor is responsible for the connection of the pairs into the distribution box.
- d. Eighteen (18) fibre optic pairs between the NC switch in the CSI patching rack to distribution boxes located under/near desks to the desktop adaptors. -.

#### **Workbenches**

The following connections are required between Patch Rack 1 and the workbenches (three total).

- e. Three fibre optic pairs shall extend from the Red switch (fibre) via a 4-port distribution box under the floor to the 3 desks. One port is spare.
- f. Three CAT x1 copper pairs shall extend from the Black switch (copper) in Patch Rack 1 in room A5-310 to a 4-port distribution box under the floor. One port is spare.

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<sup>1</sup> Type of copper cable such as CAT 6a to be agreed

- g. Patch leads (6) in 5 metre lengths will connect from each port on the distribution box to a desktop power and cabling adapter (Purchaser provided).

### **GPS Receivers.**

The three GPS racks (Thales, LOMP, LEO) all contain individual GPS receivers that require a connection to three GPS antennae mounted externally on the building by the purchaser. Each antenna shall be connected with a fibre optic pair. The contractor will calculate, supply and install three fibre optic cable pairs (nominally 50 metres length) inside suitable external/internal conduit from the racks to antennae. The purchaser will connect each pair to the appropriate GPS receiver. The details of the antenna location are to be confirmed and will be provided by the Purchaser before the works commence.

- The Thales GPS is to be connected by one fibre optic pair to the NC switch in the CSI Patching Rack (NC). One Red fibre optic pair is to be connected to the Red Distribution box in the CSI patch rack. The contractor is to place the cabling inside suitable conduit for connection by the purchaser.
- The Leo GPS Rack is to be connected by one fibre optic pair to the NC switch CSI Patching Rack (NC) and one fibre optic pair to the Red Distribution box in the CSI patching rack. The contractor is to place the cabling inside suitable conduit for connection by the purchaser.
- The LOMP GPS Rack is to be connected by one fibre optic pair to the NC switch CSI Patching Rack (NC) and one fibre optic pair to the Red Distribution box in the CSI patch rack. The contractor is to place the cabling inside suitable conduit for connection by the purchaser.

### **Internal Connections within the CSI Lab**

#### **CSI SVR Rack**

CSI SVR Rack (NC) is to be connected by one fibre optic pair to the switch inside the CSI Patching Rack.

The contractor is to place the cabling inside suitable conduit for connection by the purchaser.

#### **NR DEV 1 Rack**

The NR Dev 1 rack is to be connected by one fibre optic pair to the NR Distribution box in the CSI Patching rack. The contractor is to place the cabling inside suitable conduit for connection by the purchaser.

#### **NR DEV 2 Rack**

NR Dev 2 rack is to be connected by one fibre optic pair to the NR Distribution box in the CSI Patching rack. The contractor is to place the cabling inside suitable conduit for connection by the purchaser.

#### **NC desks (5)**

Each of the NC desk (total 5) shall be connected by two fibre optic<sup>2</sup> pairs and two CAT x<sup>3</sup> copper pairs. Connections will extend from a NC switch in the CSI patching rack to a multi-port distribution box under the floor. Patch leads will connect from each port on the distribution box to a desktop power and cabling adapter. Each distribution box will serve up to four connections:

- a) Patch panels/switches installed in CSI patch rack provided by the purchaser.
- b) Ten OM4 FO pairs provided by supplier.
- c) Ten CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes (6) provided by supplier.
- e) Patch leads OM4 and CAT 6 (10 plus 10) from distribution boxes to desktop adapter provided by supplier in 5-meter lengths.

### **NC test director desk**

The NC test director desk is to be connected by five fibre optic<sup>4</sup> pairs and five CAT x<sup>5</sup> copper pairs. Connections will extend directly from a switch in the CSI Patching Rack to desktop power and cabling adapter. Each distribution box will serve up to five connections:

- a) Patch panels/switches installed in CSI patch rack provided by the Purchaser.
- b) Five OM4 FO pairs provided by supplier.
- c) Five CAT 6a copper cables provided by supplier.

### **NR Impex Admin**

The NR Impex Admin desk requires two Cat 6 cable pairs; one from NR Impex Admin work area to NR Dev 1 rack and one from NR Impex Admin work area to NR Dev 2 rack through direct connections.

### **NS WAN Desk**

The NS WAN desk requires one FO Pair from the CSI Patch panel provided by the Purchaser to a workstation through a direct connection

## **Section 4 – Detailed work packages.**

### **Lab connections to Patch Rack 1 and Patch Rack 2**

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<sup>2</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>3</sup> Type of copper cable such as CAT 6a to be agreed

<sup>4</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>5</sup> Type of copper cable such as CAT 6a to be agreed

- a. [CSI-A5170-Cbl-01] The contractor shall calculate, deliver and install under the floor one (1) fibre pair connected from the CSI Patching rack in the Lab to the Patch Rack 1 in room A5-310. The cable is not to be connected in Patch rack 1
- b. [CSI-A5170-Cbl-02]The contractor shall calculate, deliver and install four (4) pairs of OM4 fibre optic cable pairs to be connected from the Red switch in Patch Rack 1 (A5-310) to the CSI patching rack.
- c. [CSI-A5170-Cbl-03]The contractor shall calculate, deliver and install two (2) pairs of CAT6 cable connected from the Black switch in Patch Rack 1 (A5-310) to the CSI patching rack.
- d. [CSI-A5170-Cbl-04]The contractor shall calculate, deliver and install three (3) pairs of OM4 fibre optic cables connected directly from the Red switch in Patch Rack 1 (A5-310) to 3 workbenches in the CSI Lab
- e. [CSI-A5170-Cbl-05]The contractor shall calculate, deliver and install three (3) pairs of CAT6 cables connected directly from the Black switch in Patch Rack 1 (A5-310) to 3 workbenches in the CSI Lab
- f. [CSI-A5170-Cbl-06]The contractor shall calculate, deliver and install six (6) patch lead pairs (3 x fibre 3 x copper) connected to the under floor 4-port distribution boxes and left coiled up under the floor.
- g. [CSI-A5170-Cbl-07] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; A5130F followed by the desk/client number. For example [A5130F-01].
- h. [CSI-A5170-Cbl-08] The contractor shall calculate, deliver and install under the floor eighteen (18) pairs of OM4 fibre optic cables patch leads connected from the NC switch in distribution boxes located under/near desks to the desktop adaptors
- i. [CSI-A5170-Cbl-09] The contractor shall install a twenty (20) pair FO Patch panel in the CSI Patch rack to enable patching from the MER to the CSI Lab equipment.

### **Lab internal cabling**

- a. [CSI-A5170-Int-01] The contractor shall calculate, deliver and install two (2) pairs of OM4 fibre optic cables; one connected from the CSI patching rack to the NR Dev 1 Rack and one connected from the CSI patching rack to the NR Dev 2 Rack.
- b. [CSI-A5170-Int-02] The contractor shall calculate, deliver and install two (2) pairs of CAT 6 cables; one connected from the NR Impex Admin Station to the NR Dev 1 Rack and one connected from the NR Impex Admin Station to the NR Dev 2 Rack.
- c. [CSI-A5170-Int-03] The contractor shall calculate, deliver and install ten (10) pairs of OM4 fibre optic cables; two pairs to be connected to each of 5 desks connected from the NC switch in the CSI patching rack to 4-port distribution box under the floor.
- d. [CSI-A5170-Int-04] The contractor shall calculate, deliver and install ten (10) pairs of CAT6 copper cables; two pairs to be connected to each of 5 desks connected from the NC switch in the CSI patching rack to 4-port distribution box under the floor.

- e. [CSI-A5170-Int-05] The contractor shall deliver and install six (6) 4-port distribution boxes under the floor to connect the 10 pairs of fibre optic cable and copper cable in parts c and d above.
- f. [CSI-A5170-Int-06] The contractor shall calculate, deliver and install twenty 5-metre length patch leads (10 fibre and 10 copper) connected to the distribution boxes on part e above and left coiled u under the floor.
- g. [CSI-A5170-Int-07] The contractor shall calculate, deliver and install two (2) pairs of OM4 fibre optic cables; one connected from the CSI patching rack to the NR Dev 1 Rack and one connected from the CSI patching rack to the NR Dev 2 Rack
- h. [CSI-A5170-Int-08] The contractor shall calculate, deliver and install ten (10) pairs of OM4 fibre optic cables; two pairs to be connected to each of 5 desks connected from the NC switch in the CSI patching rack to 4-port distribution box under the floor
- i. [CSI-A5170-Int-09]The contractor shall calculate, deliver and install three Cat 6 cable pairs to be connected from the CSI patching rack switches to the each of the GPS racks for LOMP, Thales and Leonardo
- j. [CSI-A5170-Int-10] The contractor shall calculate, deliver and install four (4) Cat 6 cables connected from the CSI patching rack switches to be left coiled up under the Test Director desk.
- k. [CSI-A5170-Int-11]The contractor shall calculate, deliver and install four (4) fibre optic cable pairs connected from the CSI patching rack switches to be left coiled up under the Test Director desk.
- l. [CSI-A5170-Int-12] The contractor shall calculate, deliver and install one (1) fibre optic pair cables connected from the CSI patching rack switches to be left coiled up under the NSWAN desk.

### **GPS Antenna Connections**

- a. [CSI-A5170-Ant-01]The contractor shall calculate, deliver and install three (3) pairs of OM4 fibre optic cables (estimated length 30 – 40 metres) to be connected from the three GPS Antennas (located on the outside of the building in a position to be confirmed) to each of the three L16 Racks.

### **Testing**

- a. [CSI-A5170-Tst-01]The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

### **Option**

- b. [CSI-A5170-Opt-01] The contractor shall provide a quote as an option install two Smart Board with cabling to connect to NC test director desk.
- c. [CSI-A5170-Opt-02] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties

and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

## Annex C - CO-115268-AFAP Work Package 4.1.3: JISR Lab Structured Cabling Requirements

**Section 1 – JISR facility (A5–230) purpose.** The JISR facility will be shared by several capabilities in the JISR SL. The JISR facility (A5-230) is shown in figure 1. The facility is a multi-purpose area that requires the ability to configure connection to various NATO systems and security domains and the Internet via fiber pairs connected to the Main Equipment Room (MER) through two patch racks in room A5-310.

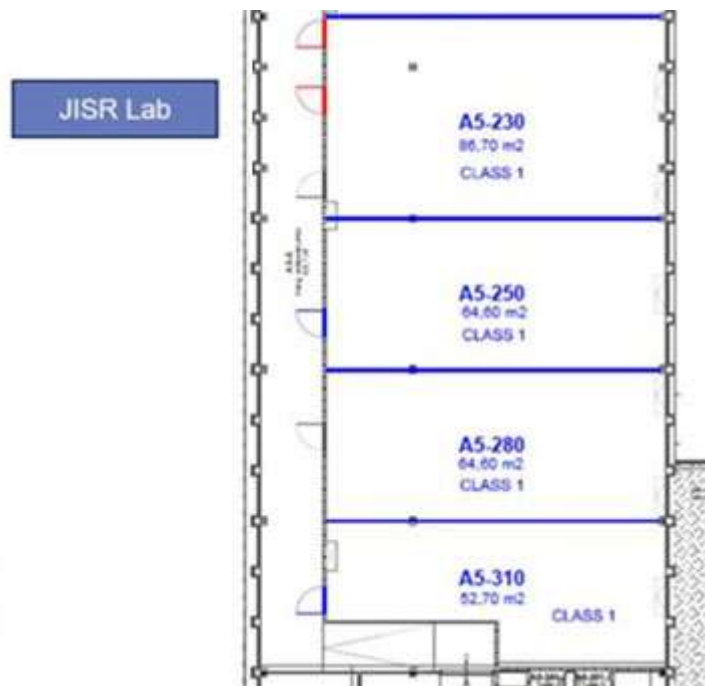


Figure 1 – Room Designation

**Section 2 – Current As-Built Drawing.** Technical drawing showing HN as built infrastructure under the floor plus the location of the patch rack at the bottom right corner. Connections to the patch rack from the MER are provided. The scope of this Statement of Work (SOW) extends from the patch rack to specified areas of the facility under the raised floor.



A5-180 JISR Lab - as-built plan

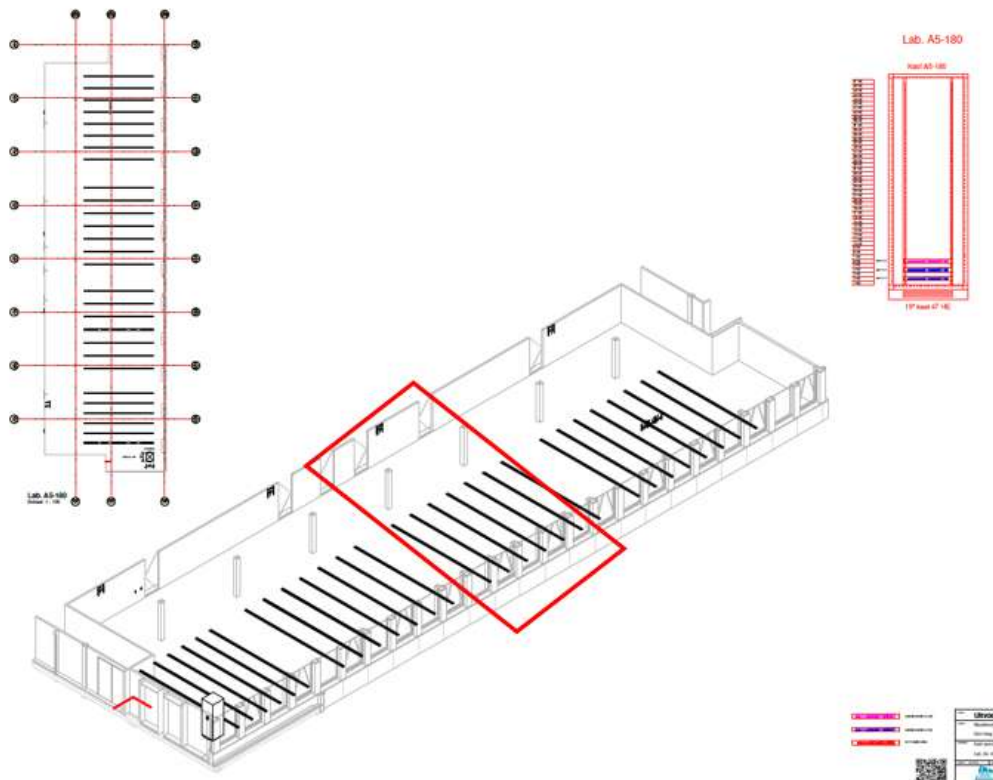


Figure 2 – Facility Layout

**Section 3 – Technical details.** Each of the work positions in the technical facility areas is to be connected by one fibre optic<sup>1</sup> pair and/or one CAT x<sup>2</sup> copper cable. Connections will extend from a switch in a patch rack to a multi-port distribution box under the floor. Patch leads will connect from each port on the distribution box to a desktop power and cabling adapter (NCI Agency responsibility). Each distribution box will serve up to four clients plus meeting tables:

- a) Patch panels/switches installed in 43U patch racks in Room A5-310 connected to the MER and CFBLNET provided by the purchaser.
- b) OM4 FO pairs provided by supplier.
- c) CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes provided by supplier.
- e) Patch leads OM4 and CAT 6 from distribution boxes to desktop adapter provided by supplier in 5-meter lengths.

<sup>1</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>2</sup> Type of copper cable such as CAT 6a to be agreed



Equipment	Quantity
EW RED Client positions	2
Red AIS Positions	2
CFBLNET RED positions	2
Spare Red pairs under floor	2
BGX/TBD position (Red phone)	1
<b>Total RED connections</b>	<b>9</b>
Softw. Factory postions (Black wired)	4
Spare Black pairs under floor	2
<b>Total Black connections</b>	<b>6</b>
HDMI connections to TV	2

#### Section 4 – Detailed work packages.

##### Fibre Optic pairs

- a. [JISR-A5230-Cbl-01] The contractor shall calculate, deliver and install under the floor nine (9) pairs of OM4 fibre optic cables; 4 pairs to be connected from Patch Rack 1 Red switch, 2 pairs connected to CFBL Red switch in Patch Rack 2 in room A5-310, 2 pairs (NAEW) and 1 pair (BGX) to be left unconnected in Patch Rack 1 . Fibre pairs are to be connected to distribution boxes under/near every desk as depicted in figure 3. Distribution boxes will provide four (4) ports to allow patch leads to be connected leading to desks - three ports to be connected to desks – one port spare.
- b. [JISR-A5230-Cbl-02] The contractor shall calculate, deliver and install under the floor seven (7) pairs of OM4 fibre optic cables patch leads connected from the distribution boxes and left coiled up under the floor.
- c. [JISR-A5230-Cbl-03] The contractor shall calculate, deliver and install under the floor two (2) pairs of OM4 fibre optic cables patch leads, coiled up as spare, connected from to a spare port on the distribution boxes located under/near the central desks.
- d. [JISR-A5230-Cbl-04] The contractor shall deliver and install under the floor six (6) media converters to convert the fibre optic to the appropriate amount of CAT-6a connections as depicted in figure 3.
- e. [JISR-A5230-Cbl-05] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; A5230F followed by the desk/client number. For example [A5130F-01].
- f. [JISR-A5230-Cbl-06] The contractor shall calculate, supply and install under the floor duct/conduit to extend the cables from the patch racks to distribution boxes in the room.

##### Copper pairs

- g. [JISR-A5230-Cbl-07] The contractor shall calculate, deliver and install under the floor six (6) CAT 6A cables connected from the Patch Rack connectors to each distribution boxes to be located under/near every desk. Distribution boxes will provide four (4) ports to allow patch leads to be connected leading to desks.

- h. [JISR-A5230-Cbl-08] The contractor shall calculate, deliver and install under the floor six (6) CAT6A cables patch leads to connect from the distribution boxes / media converters to be left coiled up under /near desks to the desktop adaptors.
- i. [JISR-A5230-Cbl-09] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; A5230C followed by the desk/client number. For example [A5230C-01].
- j. [JISR-A5230-Cbl-10] The contractor shall calculate, supply and install under the floor duct/conduit to extend the cables from the patch racks to distribution boxes in the room.

### **Testing**

- k. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

### **Other**

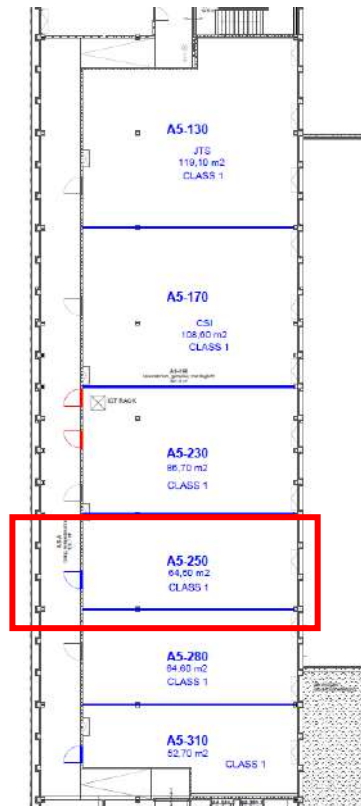
- l. [JISR-A5230-Cbl-11] The contractor shall deliver and install two 15m HDMI 2.0 cables from display device shown in figure 4 to the work positions indicated (TV-1 to HDMI – TV1 and TV-2 to HDMI – TV2)

### **Option**

- m. [JISR-A5230-Opt-01] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

## Annex D - CO-115268-AFAP Work Package 4.1.4: Services Support Centre - Structured Cabling Requirements

**Section 1 – Services Support Centre Room A5–250.** The Services Support Centre is a dedicated facility that supports NCI Agency services and is occupied full-time by service technicians. The Services Support Centre provides connectivity to the Red and Black domains via a patch rack situated in room A5-310 at the bottom of Figure 1. The switches in the racks are connected to the Main Equipment Room (MER) in the basement via backbone infrastructure cabling.



**Figure 1 – Room Designation**

**Section 2 – Current As-Built Drawing.** The technical plan from the Host Nation shows the as-built infrastructure under the floor, Figure 2. The patch rack is at the bottom right. A second patch will be installed 1 metre from the patch rack shown to provide necessary separation of switches of different security domains. The single mode data cables run under the wall at the bottom of the picture to the MER. The black horizontal bars are the electrical bus bars that provide power to the facility. The structured cabling is to be installed in an optimal way to avoid the power supplies.

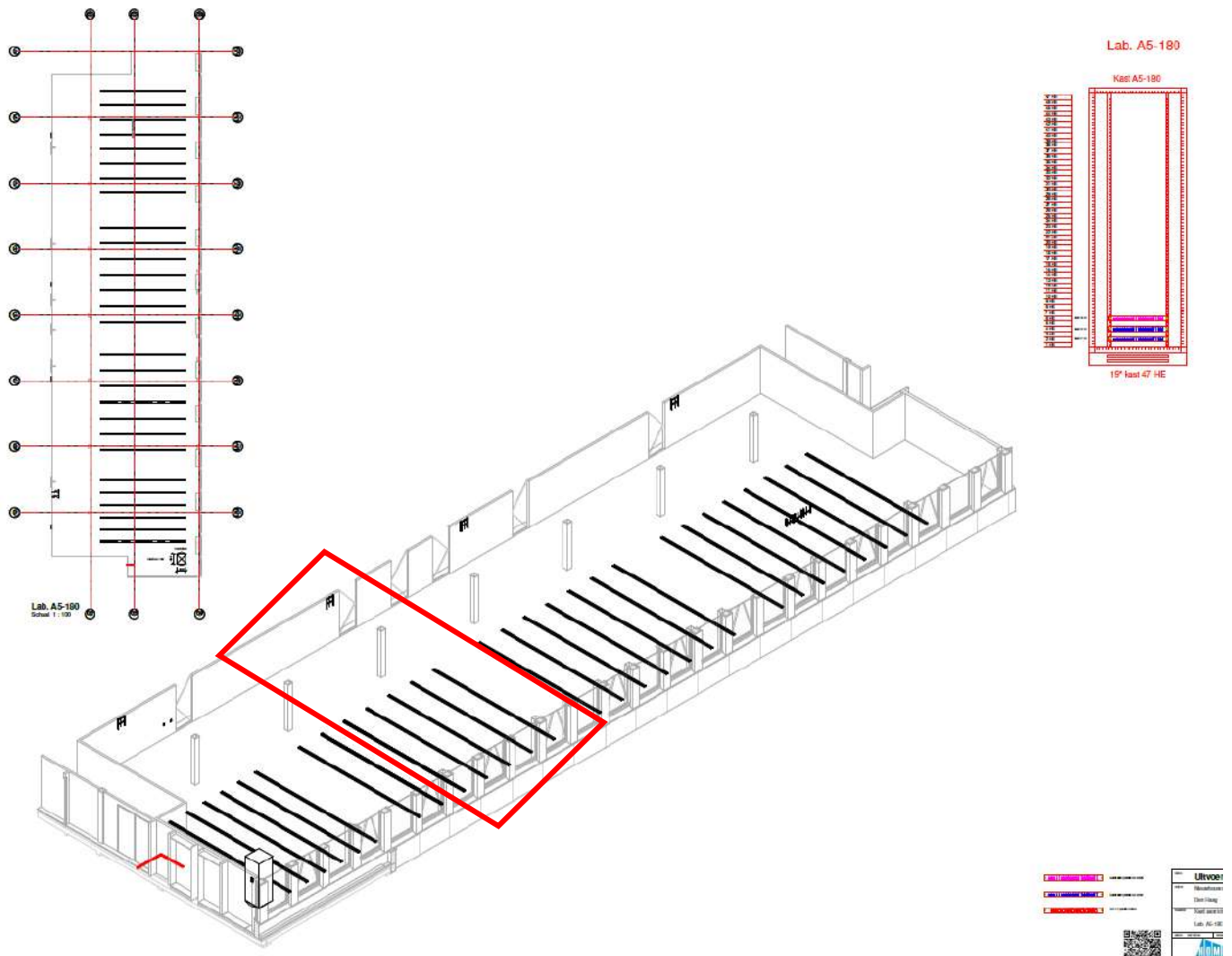


Figure 2 – Facility as-built plan

**Section 3 – Technical details.** The desk layout is shown in Figure 3 below. Each of the cabling adaptors on the desks are to be connected by one fibre optic<sup>1</sup> pair and one CAT x<sup>2</sup> copper cable. Connections will extend from a switch in a patch rack along the floor under the windows to multi-port distribution boxes. Patch leads will connect from each port on the distribution box to a desktop power and cabling adaptor (NCI Agency supplied and fitted). Optimally, each distribution box will serve up to four desk connection for each security domain:

- a) Patch panels/switches installed in a 43U patch rack connected to the MER provided by the client.
- b) OM4 FO pairs provided by supplier.
- c) CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes provided by supplier.

<sup>1</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>2</sup> Type of copper cable such as CAT 6a to be agreed

- e) Patch leads OM4 and CAT 6 from distribution boxes to desktop adapter provided by supplier in 5 metre lengths.

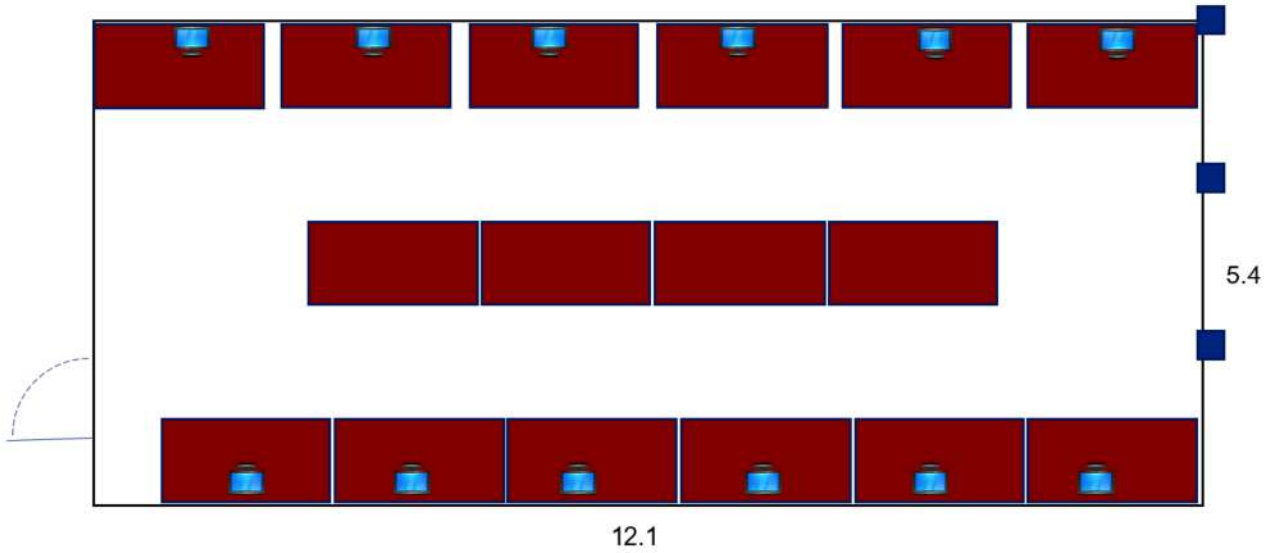


Figure 3 Desk layout

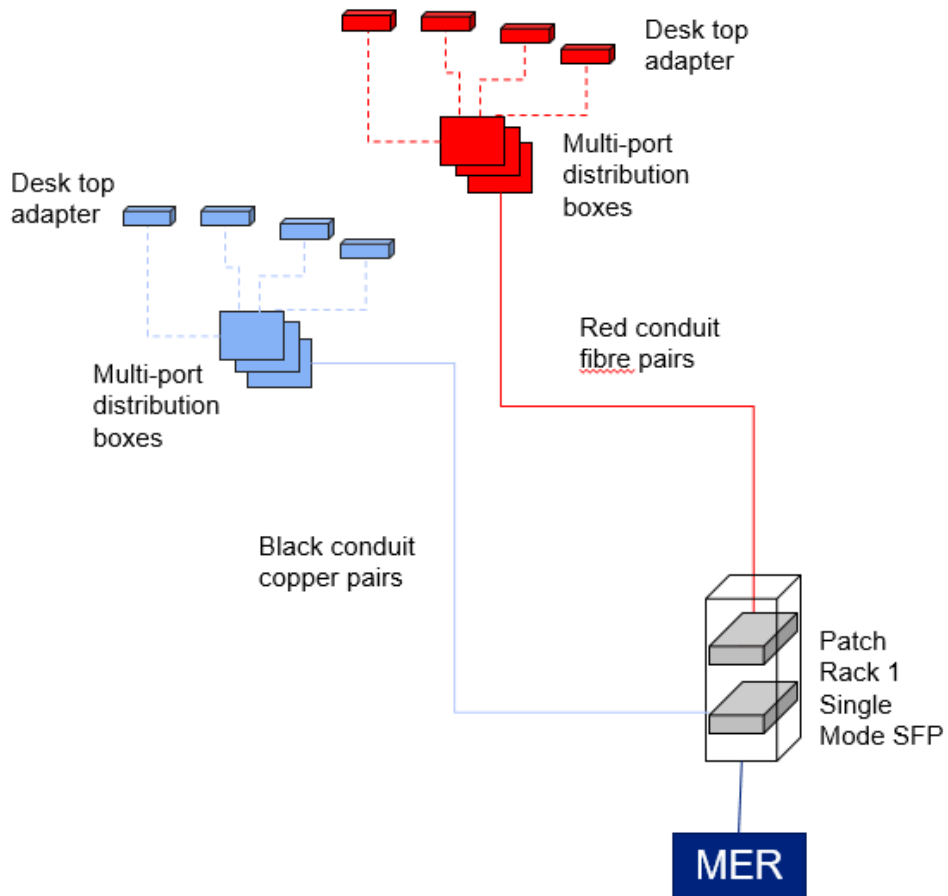


Figure 4 – Cabling Schematic

#### **Section 4 – Detailed work packages.**

- a. [SSC-A5250-Cbl-01] The contractor shall calculate, deliver and install under the floor 12 pairs of OMx<sup>3</sup> cable connected from Patch Rack One Red switches to 4-way distribution boxes (4) to be positioned to connect 3 desks each with one port spare. One additional cable pair shall be connected to a distribution box under the central tables.
- b. [SSC-A5250-Cbl-02] The contractor shall calculate, deliver and install under the floor 12 pairs of CATx<sup>4</sup> cable connected from Patch Rack One Black switches to 4-way distribution boxes (4) to be positioned to connect 3 desks each with one spare. One additional cable pair shall be connected to a distribution box under 4 the central tables.
- c. [SSC-A5250-Cbl-03] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; SCC – classification- number (i.e. SCC-RED-01).
- d. [SSC-A5250-Cbl-04] The contractor shall supply three (3) pairs of 10m OMx fibre optic cable pairs and three (3) pairs of CATx, connected (coiled up under the floor) to the spare port on each distribution box.
- e. [SSC-A5250-Cbl-05] The contractor shall calculate, supply and install under the floor duct/conduit to extend the cables from the patch racks to distribution boxes in the room.
- f. [SSC-A5250-Cbl-06] The contractor shall calculate, deliver and install under the floor 12 pairs of OMx<sup>5</sup> cable pairs and 12 pairs of CATx cable pairs, each 5 metres long connected to the 4-way distribution boxes (4 RED plus 4 Black). There are to be left coiled up under the floor awaiting connection to desk adapters after the customer infrastructure works are completed.

#### **Testing**

- g. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

#### **Option**

- h. [SSC-A5250-Opt-01] The contractor shall supply, install and connect four (4) fixed infrastructure displays<sup>6</sup> two on each long wall to include power and HDMI cables (15 metres high performance) inside a wall duct.
- i. [SSC-A5250-Opt-02] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power

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<sup>3</sup> Type of Fibre Optic Cable to be agreed with customer

<sup>4</sup> Type of Fibre CAT copper cable to be agreed with customer

<sup>5</sup> Type of Fibre Optic Cable to be agreed with customer

<sup>6</sup> Specification to be confirmed



cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

## Annex E - CO-115268-AFAP Work Package 4.1.5: Shared Technical Facility Number 5- Structured Cabling Requirements

**Section 1 – Shared Technical Facility Number 5 Room A5–280.** The Shared technical facilities are multi-purpose facilities able to be configured to support any Agency domain or system. This SOW will specify connections to a specific domain for testing purposes although each workstation will be able to be connected to any domain via dedicated switches in two patch racks in room A5-310 at the bottom of Figure 1. The default connectivity for this room is to the CFBL Network via patch rack 2. The switches in the racks are connected to the Main Equipment Room (MER) in the basement via backbone infrastructure cabling.

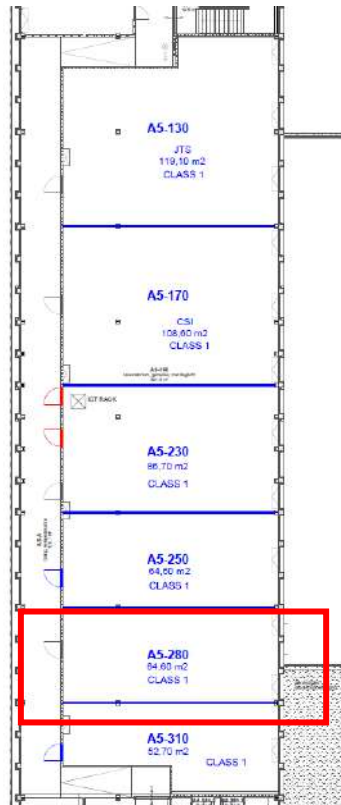


Figure 1 – Room Designation

**Section 2 – Current As-Built Drawing.** The technical plan from the Host Nation shows the as-built infrastructure under the floor, Figure 2. The CFBL Patch Rack 2 will be situated minimum 1 metre from Patch Rack 1 shown at the bottom right in room A5-310 to provide the necessary separation of switches of the different security domains. The single mode data cables run under the wall at the bottom of the picture to the MER. The black horizontal bars are the electrical bus bars that provide power to the facility. The structured cabling is to be installed in an optimal way to avoid the power supplies.

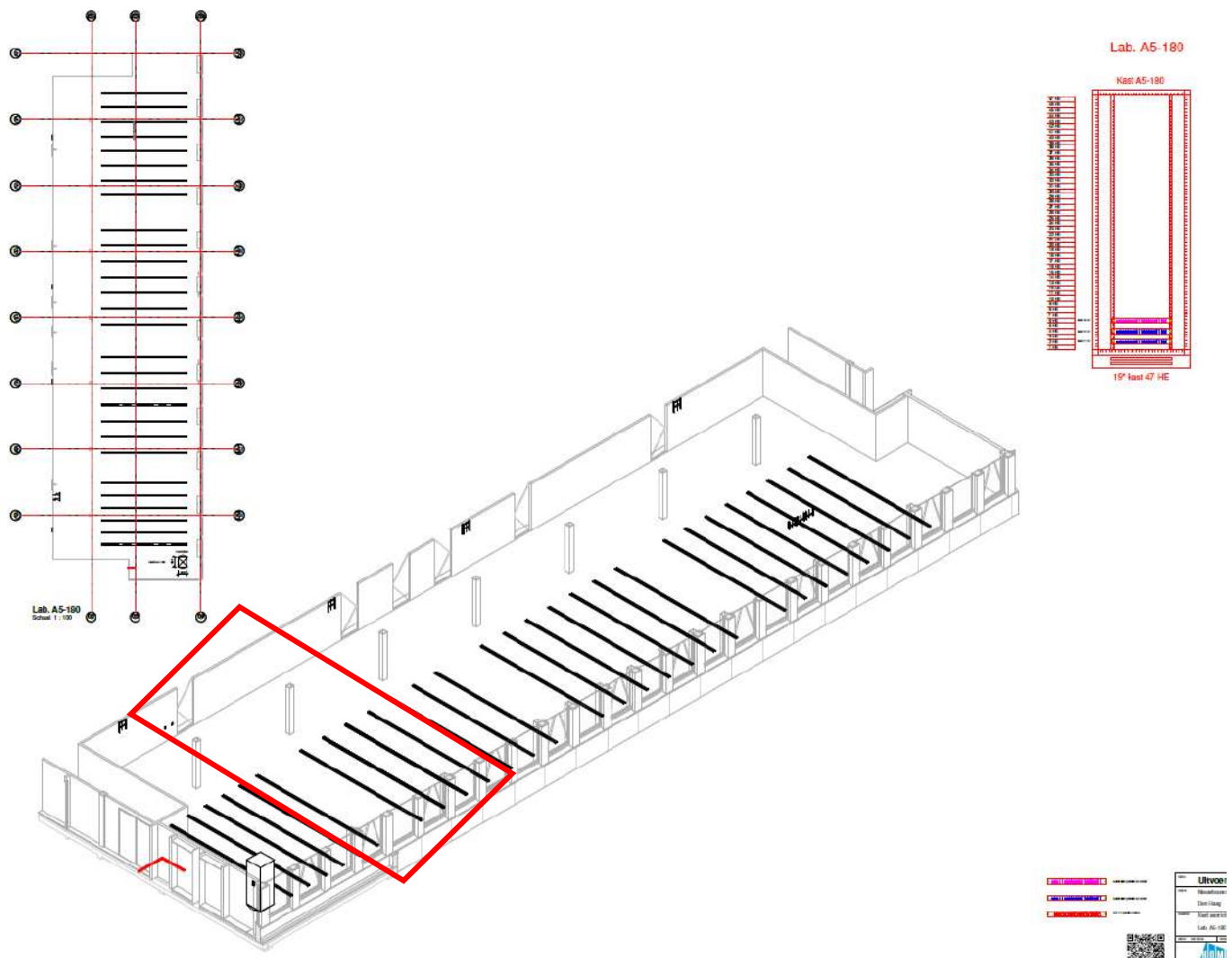


Figure 2 – Facility as-built plan

**Section 3 – Technical details.** The desk layout is shown in Figure 3 below. Each of the cabling adaptors on the desks are to be connected by one fibre optic<sup>1</sup> pair and one CAT x<sup>2</sup> copper cable. Connections will extend from a switch in a patch rack along the floor under the windows to multi-port distribution boxes. Patch leads will connect from each port on the distribution box to a desktop power and cabling adapter (NCI Agency supplied and fitted). Optimally, each distribution box will serve up to four desk connection for each security domain:

- a) Patch panels/switches installed in a 43U patch rack connected to the MER provided by the client.
- b) OM4 FO pairs provided by supplier.
- c) CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes provided by supplier.

<sup>1</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>2</sup> Type of copper cable such as CAT 6a to be agreed

- e) Patch leads OM4 and CAT 6 from distribution boxes to desktop adapter provided by supplier in 5 metre lengths.



Figure 3 Desk layout

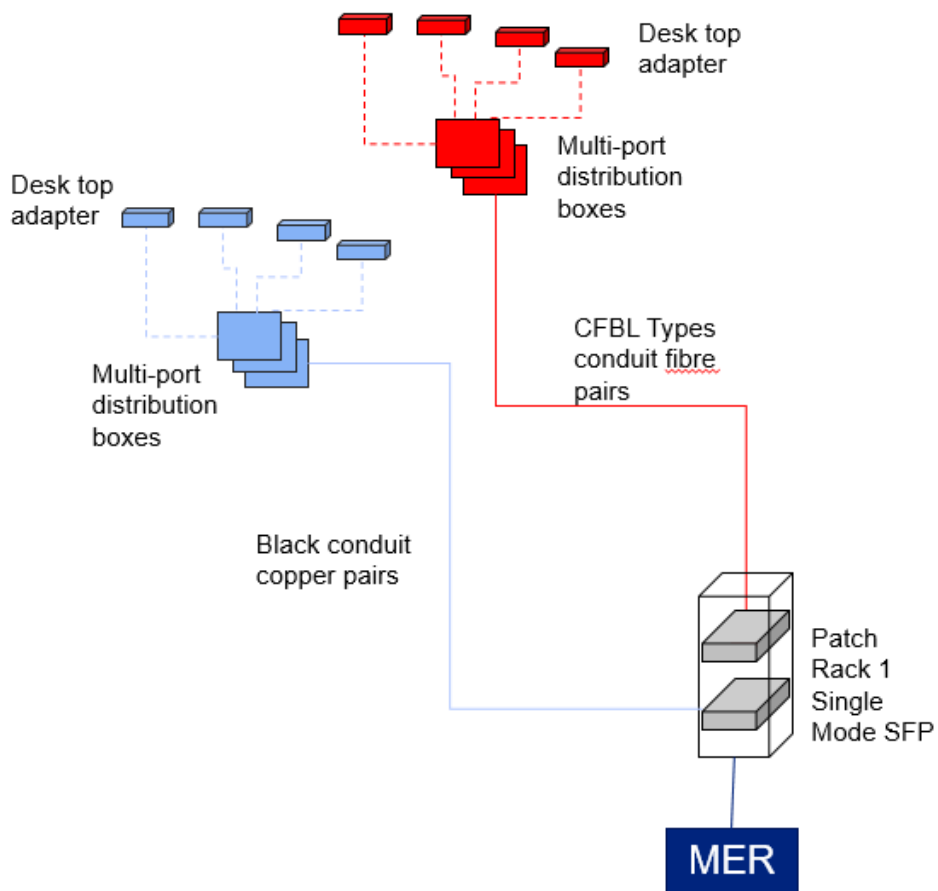


Figure 4 – Cabling Schematic  
NATO UNCLASSIFIED

## Section 4 – Detailed work packages.

- a. [SF5-A5280-Cbl-01] The contractor shall calculate, deliver and install under the floor 12 pairs of OMx<sup>3</sup> cable connected from the Patch Rack 2 CFBL switches to 4-way distribution boxes (4) to be positioned to connect 3 desks each with one port spare. This is to respect the three types of CFBL network as shown in Figure 3. One additional cable pair shall be connected to a distribution box under the central tables.
- b. [SF5-A5280-Cbl-02] The contractor shall calculate, deliver and install under the floor 12 pairs of CATx<sup>4</sup> cable connected from the Patch Rack 1 Black switch to 4-way distribution boxes (4) to be positioned to connect 3 desks each with one spare. One additional cable pair shall be connected to a distribution box under 4 the central tables.
- c. [SF5-A5280-Cbl-03] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; SF5 – classification- number (i.e. SF5-CFBL Pink-01).
- d. [SF5-A5280-Cbl-04] The contractor shall calculate, supply and install under the floor duct/conduit to extend the cables from the patch racks to distribution boxes in the room.
- e. [ SF5-A5280-Cbl-05] The contractor shall supply three (3) pairs of 10m OMx fibre optic cable pairs and three (3) pairs of CATx pairs all with termination connectors coiled up under the floor connected to the spare port on the distribution boxes. One cable is to be connected to each colour of security domain.
- f. [SF5-A5280-Cbl-06] The contractor shall calculate, deliver and install under the floor 12 pairs of OMx<sup>5</sup> cable pairs and 12 pairs of CATx cable pairs, each 5 metres long connected to the 4-way distribution boxes (4 CFBL Red plus 4 Black). There are to be coiled up under the floor awaiting connection to desk adapters after the customer infrastructure works are completed.

## Testing

- g. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

## Option

- h. [SF5-A5280-Opt-01] The contractor shall supply, install and connect three (3) fixed infrastructure displays<sup>6</sup> on the upper wall including power and HDMI (15 metre high performance cable) in a wall duct.
- i. [SF5-A5280-Opt-01] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the

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<sup>3</sup> Type of Fibre Optic Cable to be agreed with customer

<sup>4</sup> Type of Fibre CAT copper cable to be agreed with customer

<sup>5</sup> Type of Fibre Optic Cable to be agreed with customer

<sup>6</sup> Specification to be confirmed

suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

## Annex F - CO-115268-AFAP Work Package 4.1.6: Shared Technical Facility Number 6 – Patch Racks and Structured Cabling Requirements

**Section 1 – Shared Technical Facility Number 6 Room A5–310.** The Shared technical facilities are multi-purpose facilities able to be configured to support any Agency domain or system. This SOW will specify connections to a specific domain for testing purposes although each workstation will be able to be connected to any domain via dedicated switches in two patch racks in this room, Figure 1. The default connectivity for this room is to the Patch Rack 1. The switches in the racks are connected to the Main Equipment Room (MER) in the basement via backbone infrastructure cabling.

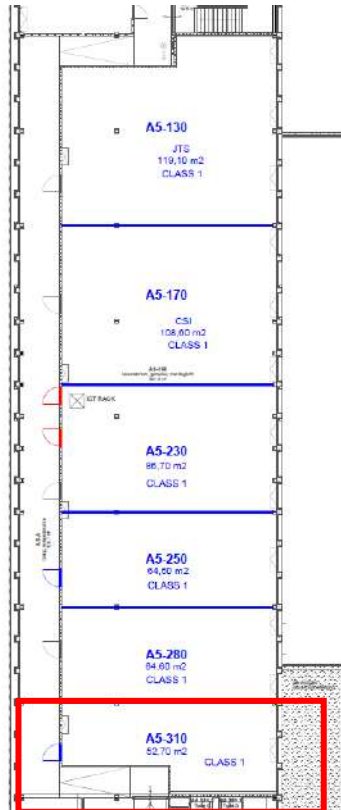


Figure 1 – Room Designation

**Section 2 – Current As-Built Drawing.** The technical plan from the Host Nation shows the as-built infrastructure under the floor, Figure 2. The Patch Rack 2 will be situated 1.2 metre away from Patch Rack 1 shown at the bottom right in room A5-310. The second patch is necessary to provide separation of switches of the different security domains. The single mode data cables run under the wall at the bottom of the picture to the MER. The black horizontal bars are the electrical bus bars that provide power to the facility. The structured cabling is to be installed in an optimal way to avoid the power supplies.

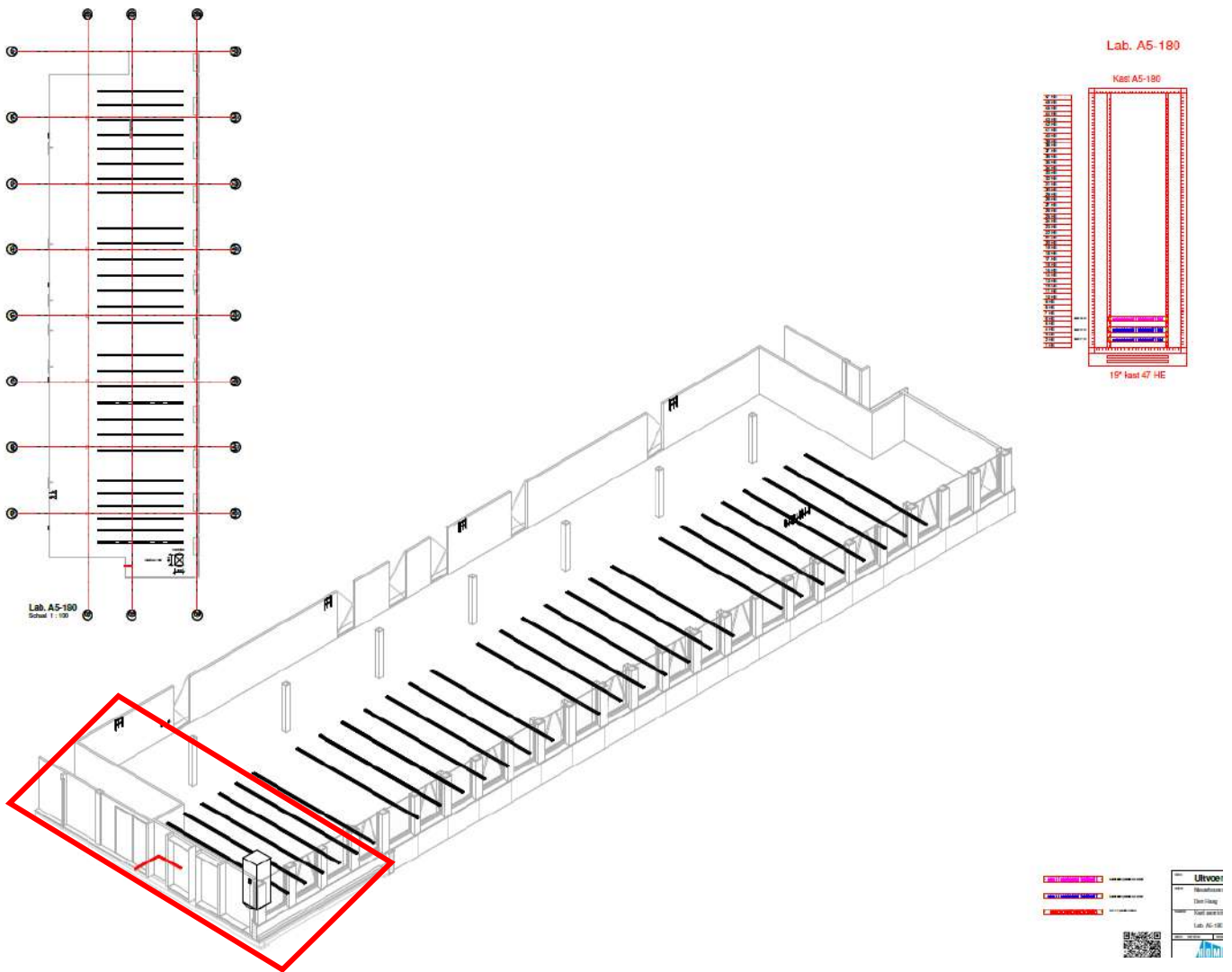


Figure 2 – Facility as-built plan

**Section 3 – Technical details.** The desk layout is shown in Figure 3 below. Each of the cabling adaptors on the desks are to be connected by one fibre optic<sup>1</sup> pair and one CAT x<sup>2</sup> copper cable. Connections will extend from switches in patch rack 1 to multi-port distribution boxes. Patch leads will connect from each port on the distribution box to a desktop power and cabling adapter (NCI Agency supplied and fitted). Optimally, each distribution box will serve up to four desk connection for each security domain:

- a) Patch panels/switches installed in a 43U patch rack connected to the MER provided by the client.
- b) OM4 FO pairs provided by supplier.
- c) CAT 6a copper cables provided by supplier.
- d) Under-floor distribution boxes provided by supplier.
- e) Patch leads OM4 and CAT 6 from distribution boxes to desktop adapter provided by supplier in 5 metre lengths.

<sup>1</sup> Type of cable such as OM4 to be agreed between bidder and NCI Agency

<sup>2</sup> Type of copper cable such as CAT 6a to be agreed



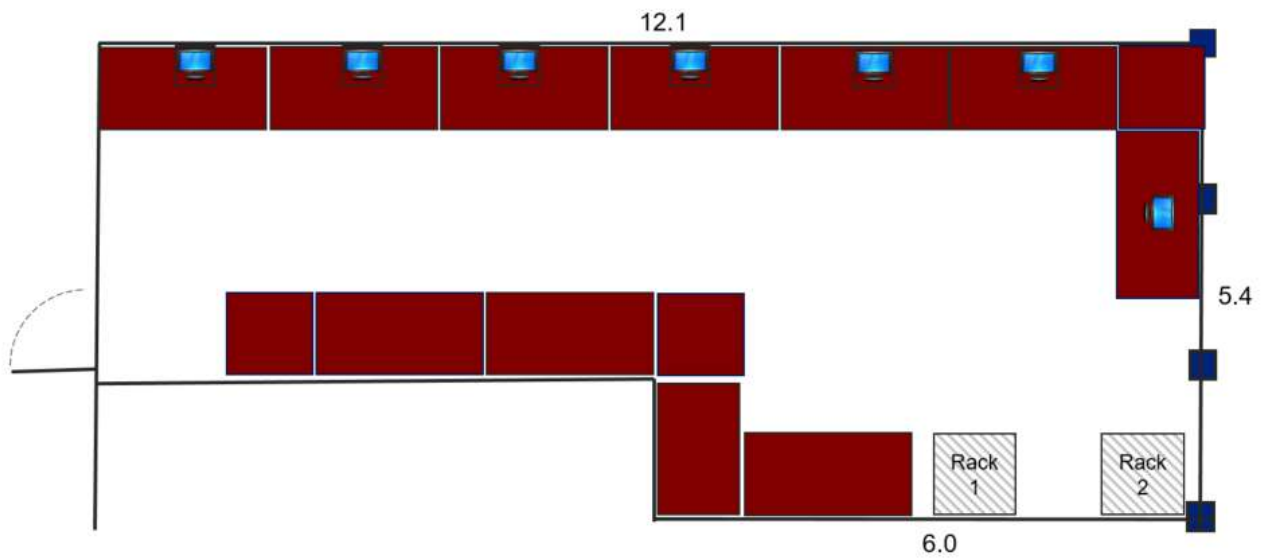


Figure 3 Desk layout

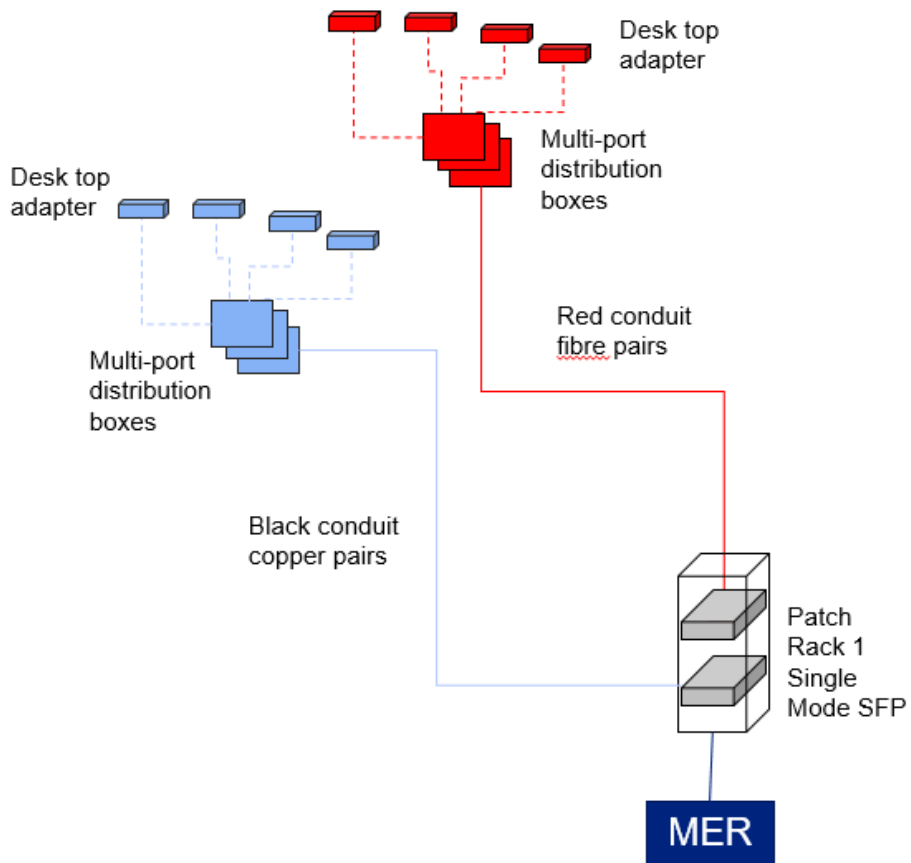


Figure 4 – Cabling Schematic

### Section 4 – Patch Rack Specifications

Summary of connections to patch racks and switches.

Rack	One				Two		
	Red	Black	Direct (not connected)	NC	CFBL Red	CFBL Yellow	CFBL Pink
JTS	22	23					
JISR	9	6	(3)		2		
CSI	7	5	(1)	20			
SSC	12	12					
S5					6	3	3
S6	7	7					
Total	57	53			8	3	3

Table 1 – Summary of connections between Labs and Patch Racks.

#### Patch Rack Requirements

The contractor shall provide patch rack one and two layout design and component specifications to provide the connections in Table 1. The Agency preferred standard that conforms with components installed in the MER for switches is; 48 port switches; DELL S3148P – P version for RJ45/CAT6A and DELL 24 port S3124F for fiber switches. Patch panels preferred models are Corning high-density patch panels.

#### Patch Rack One

Contains Red and Black and NC patch panels and switches that must have a minimum 1 metre separation between Red/NC and Black that will be verified on site by purchaser personnel. The placement shall be Black at the bottom and Red/NC at the top. In addition, there shall be the following direct connections to the MER that shall terminate in the rack but not connected to any components, labelled as shown:

- From JISR Lab Annex C – 2 pairs [JISR-NAEW]
- From JISR Lab Annex C – 1 pair [JISR-BGX]
- From CSI Lab Annex B – 1 pair [CSI Patch Rack-NC]

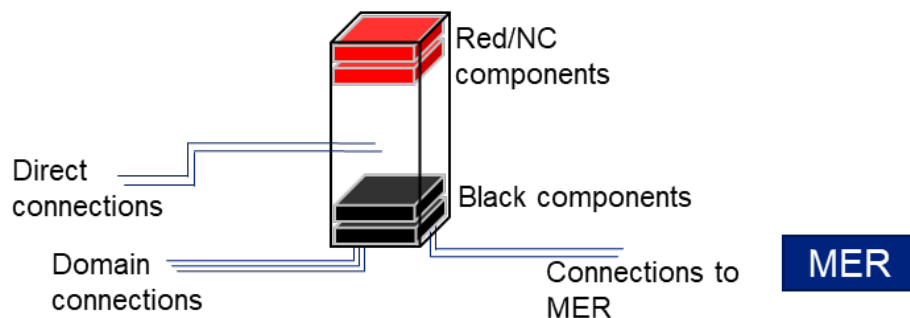


Figure 5 - Patch Rack Schematic

## Patch Rack Two

Contains CFBL Red, Yellow and Pink patch panels and switches that must have the maximum separation that will be verified on site by purchaser personnel. The placement shall be CFBL Red at the top, Yellow in the centre and Pink at the bottom.

## Section 5 – Detailed work packages.

### PNWI

a. [SF6-A5310-Cbl-01] The contractor shall calculate, supply and install under the floor 7 pairs of OMx<sup>3</sup> cable connected from the Patch Rack 1 Red switches to supplied 4-way distribution boxes (3) total to be positioned to connect up to 3 desks leaving one spare port. The third box will connect to one desk with 3 spare ports.

b. [SF6-A5310-Cbl-02] The contractor shall calculate, deliver and install under the floor 7 pairs of CATx<sup>4</sup> cable connected from the Patch Rack Black switch to supplied 4-way distribution boxes (3) to be positioned to connect 3 up to 3 desks each with one spare port. The third box will connect to one desk with 3 spare ports.

c. SF6-A5310-Cbl-03] The contractor shall calculate, supply and install under the floor duct/conduit to extend the cables from the patch racks to distribution boxes in the room.

d. [SF6-A5310-Cbl-04] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention; SF5 – classification- number (i.e. SF5-Red-001).

e. [SF6-A5310-Cbl-05] The contractor shall supply and install (coiled up) under the floor three (3) pairs of 10m OMx fibre optic cable pairs and three (3) pairs of CATx cable with termination connectors. These spare cables are to be connected to the third distribution box with 3 spare connections.

f. [SF6-A5310-Cbl-06] The contractor shall calculate, deliver and install under the floor 7 pairs of OMx<sup>5</sup> cable pairs and 7 pairs of CATx cable pairs, each 5 metres long connected to the 4-way distribution boxes (3 Red plus 3 Black). There are to be left coiled up under the floor awaiting connection to desk adapters after the customer infrastructure works are completed.

### Rack Components

g. [SF6-A5310-Rck-01] The contractor shall provide a design, supply and install in Patch Rack 1:

- Adequate switches for all Red, NC and Black connections
- Adequate patch panels for all connections Red and Black
- Patch leads (short) to provide connections between all components

h. [SF6-A5310-Rck-01] The contractor shall supply and install in Patch Rack 2:

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<sup>3</sup> Type of Fibre Optic Cable to be agreed with customer

<sup>4</sup> Type of Fibre CAT copper cable to be agreed with customer

<sup>5</sup> Type of Fibre Optic Cable to be agreed with customer

- Adequate switches for all Red, Yellow and Pink CFBL connections
- Adequate patch panels for all connections Red, Yellow and Pink CFBL
- Patch leads (short) to provide connections between all components

## Testing

i. The Contractor shall perform testing of the PNWI Structured Cabling System to prove end to end connectivity and digital transmission and shall provide the results and certificates of compliance as proof.

## Options

j. [SF6-A5310-Opt-01] The contractor shall supply, install and connect two (2) fixed infrastructure displays<sup>6</sup> on the upper wall including power and HDMI data cables (10 metre) in wall cable ducts.

k. [SF6-A5310-Opt-2] The contractor shall supply, install and connect two 48 port switches in Rack 1 (for NS connections)

l. [SF6-A5310-Opt-3] The contractor shall supply, install and connect one 48 port switch in Rack 1 (for NU/NR connections)

m. [SF6-A5310-Opt-4] The contractor shall supply, install and connect one 48 port switch in Rack 2 (for CFBL Red connections)

n. [SF6-A5310-Opt-5] The contractor shall supply, install and connect one 48 port switch in Rack 2 (for CFBL Pink connections)

o. [SF6-A5310-Opt-6] The contractor shall supply, install and connect one 48 port switch in Rack 2 (for CFBL Yellow connections)

p. [SF6-A5310-Opt-7] The contractor shall provide a quote to supply two personnel for 5 days (total 10 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles and to bring the data cables from the under-floor distribution boxes and power cables from the under-floor busbars through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

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<sup>6</sup> Specification to be confirmed

## **Annex G – CO-115268-AFAP Work Package 4.2: NSII Lab Structured Cabling Requirements**

### **1.1 NSII Lab Room C5-180 Purpose**

The NSII Lab in room C5-180 includes the rack space for SATCOM equipment, Wireless non-SATCOM equipment, Deployable CIS equipment, Networking equipment and Cyber Security equipment.

The SATCOM and Wireless racks connect to external antennas on the roof of the old NCI Agency building and to a remote SATCOM antenna at the North-West side of the building in the dunes. The Wireless radio equipment also provides connectivity to a radio site at Staelduinen through a radio tower located on top of the old building.

During the reconstruction of the old building, a temporary radio mast has been installed at the North-East side of the old building.

The NSII lab uses fibre connectivity in order to provide communications services to any other lab in the building.

The NSII lab requires connectivity to NS, NR and NU networks through the MER.

### **1.2 Current As-Built Drawing**

Figure 1 shows the technical drawing with the Host Nation as-built infrastructure under the floor plus the patching rack. The data cables from the MER run along the red conduit on the right to the Patch Rack (Kast C5-180).

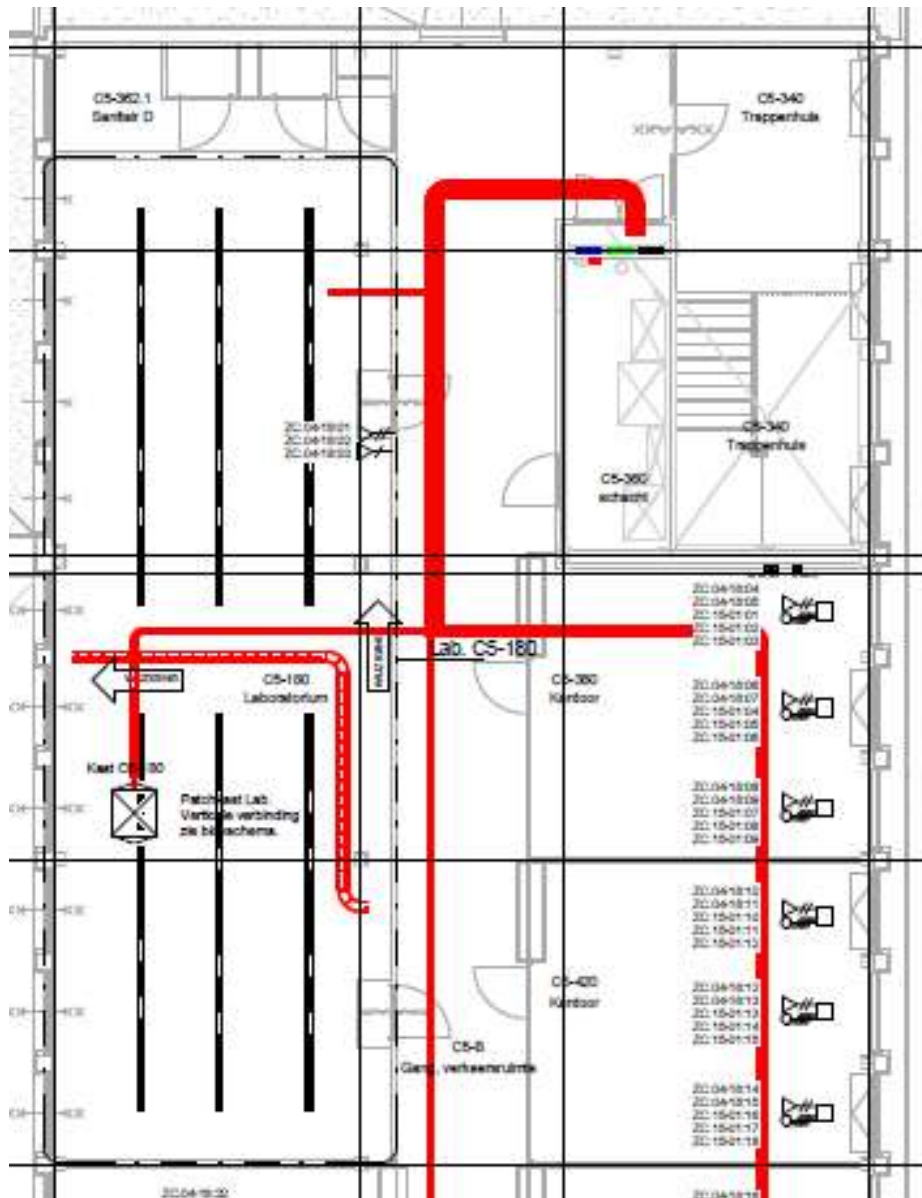


Figure 1: Technical layout of C5-180

### 1.3 Final Lab Layout

The rack layout of the NSII lab C5-180 is shown in Figure 2. Four groups of 19" racks are installed in groups of 6 racks each. The groups are labelled W (west side) and E (east side). Within each side, racks are numbered W1 to W12 and E1 to E12. The racks E7 to E12 will contain the red equipment and the other 18 racks will contain black equipment.

It is noted that the external patch rack is installed at W12.

Racks are powered from the floor and any rack interconnectivity will be through cable ducts that will be installed and connected on top of the racks.

Cable access to the roof antennas is through a cable duct at the North-West corner of the building (through the toilet block at the North side).

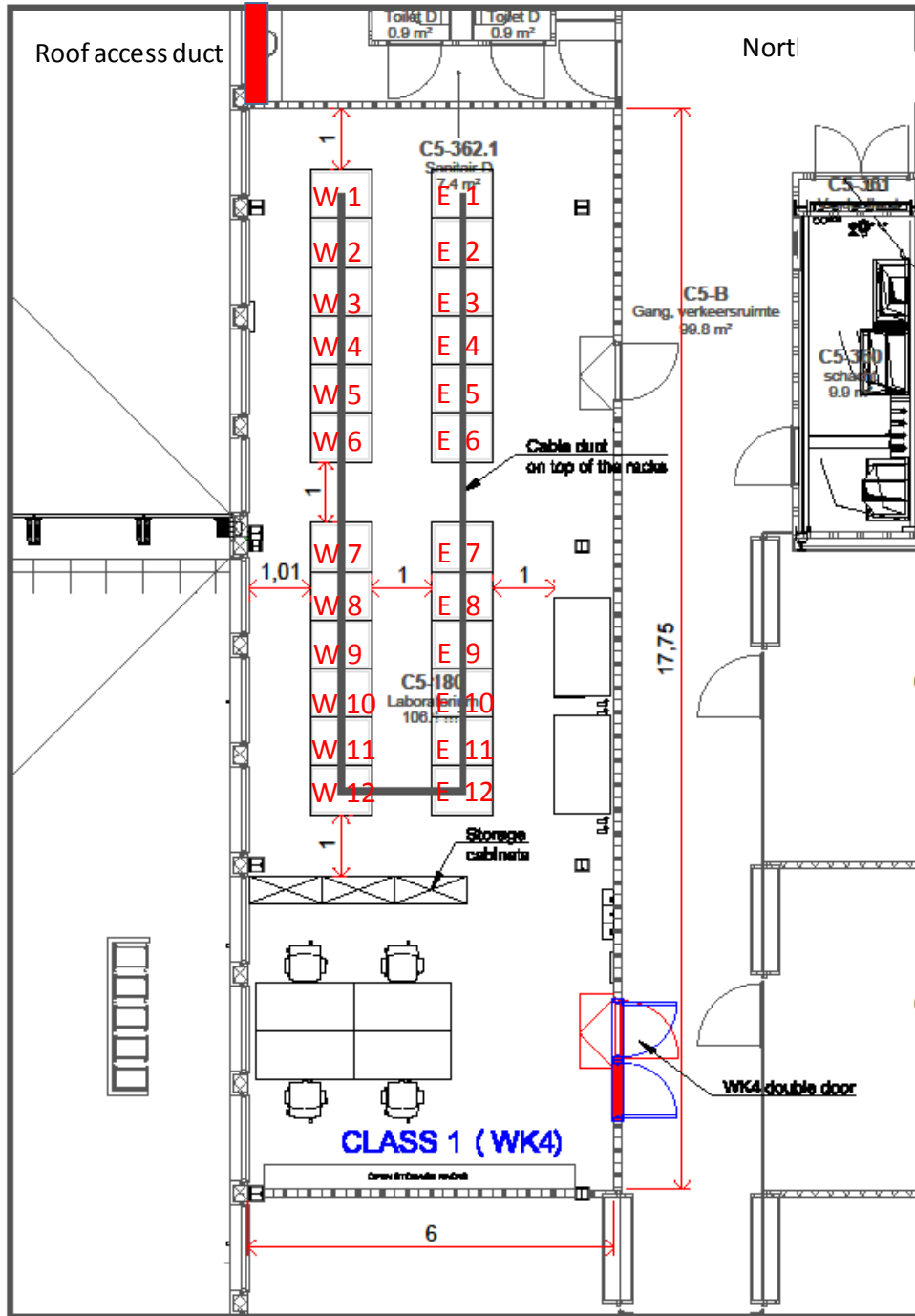


Figure 2: C5-180 lab layout

The following external Wireless (non-SATCOM) radio antennas need connectivity to the NSII lab:

- (1) DLOS (2x) on mast;
- (2) HF Antenna (3 sloping Dipoles) on mast;
- (3) UHF dipole (1x) on mast.

Most of the Wireless radio antennas are mounted on an existing 20 m high stable radio mast where the height and mast stiffness are determined by the requirements for the 2 DLOS connections to the remote HF transmitter site in Staelduinen.

The required external (roof) cable connectivity plan for the Wireless radio antennas is shown in Figure 3.

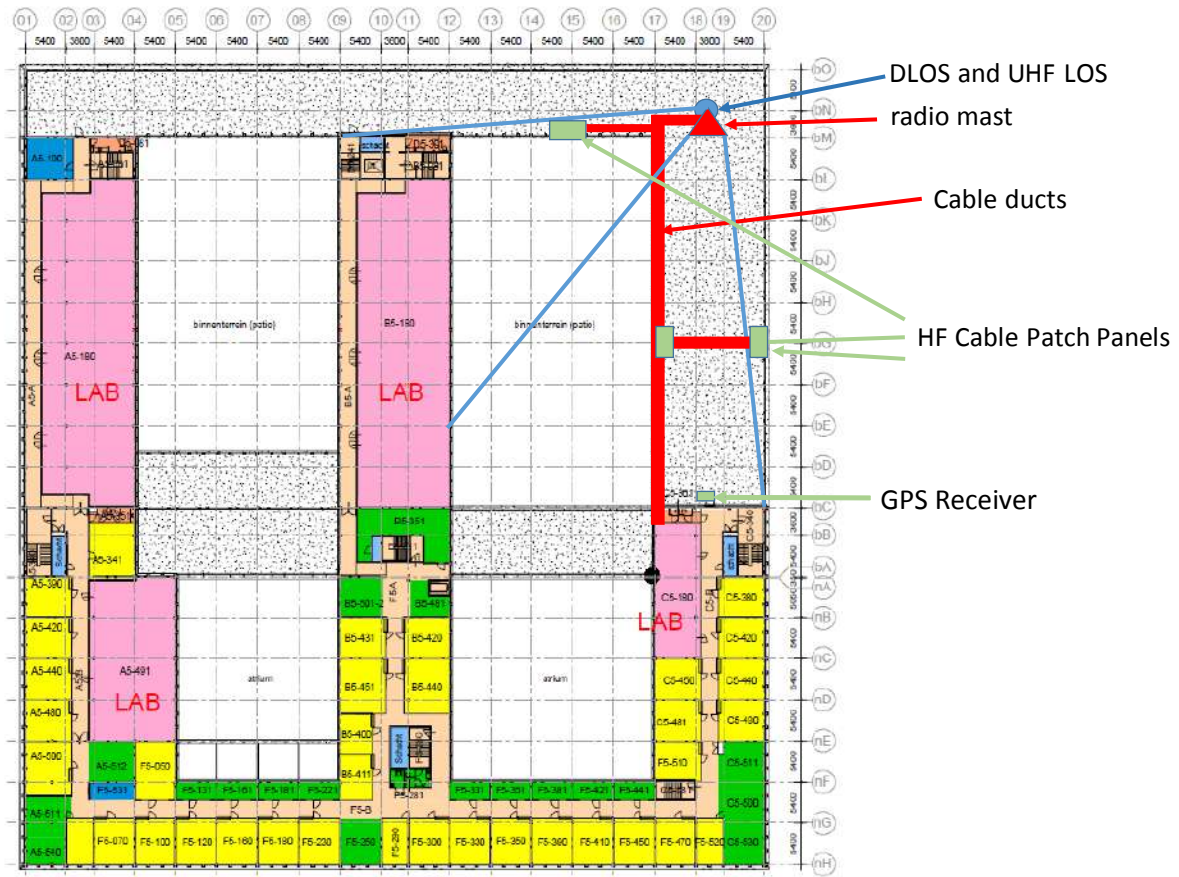


Figure 3: Wireless radio antenna connectivity

## 1.4 Technical details

### 1.4.1 External Equipment cabinets

#### 1.4.1.1 External Cabinet specifications

Two (2) external IP55 rated equipment cabinets equipped with 19" equipment mounting rails shall be installed at the antenna mast base. The purpose of those cabinets is to allow for either cable transition / signal conversion or signal amplification before the radio signals are forwarded to the radio room.

The supplied cabinet is to include power and heating in order to avoid condensation build up caused by temperature fluctuation. Cabinets shall be installed as an integral element of the duct installation program with duct entry planned to the cabinet base.

The external equipment cabinets shall have the following characteristics:



- Fabricated from steel, aluminium or environmentally resistant plastic;
- Maintenance free surface resistant to the effects of moisture and sun, surface treatment, appropriate paintings, colour choice by the Administration;
- Cabinet integrity rated to IP55;
- Minimum useable frame height of 16U (1U=1.75 inches);
- Integral fibre optic splice tray or suitable for presenting fibre termination through standard patch panel;
- Base plate with cable inlets for duct entry;
- Lockable front and optionally rear door;
- 19" (48 cm) vertical mounting frames;
- Integral presentation of power distribution;
- Integral cabinet heater in order to avoid condensation build up through temperature fluctuation;
- Power distribution unit integrating at least 10 power sockets.

#### 1.4.1.2 230V Power Cables

Two power distribution cables will be installed from the lab, each terminating in a separate external equipment cabinet.

- 1) 2 x 20 A external power cable;
- 2) Estimated cable length for each cable: 100 m;
- 3) Termination of each cable in an external equipment cabinet at Radio mast base and at NSII lab power bar near SATCOM patch rack W1 in room C5-180.

#### 1.4.2 External Wireless Radio Cables

##### 1.4.2.1 GPS antenna

1 x RF cable for GPS input to the frequency reference system:

- a) RG214 50 Ohm flexible cable (<12 dB total loss at 30m and at 1500 MHz);
- b) N-type (male) connectors;
- c) Estimated cable length 30 m (max 30 m for RG214 or max 70 m for LMR-400);
- d) Termination at the GPS antenna on a pole (to be supplied by the contractor) and at the NSII lab patch rack W12 in room C5-180.

The position of GPS antenna is shown in Figure 3.

#### 1.4.2.2 DLOS

Two DLOS flat-panel antennas are installed in the top of the radio mast with line of sight connectivity to similar antennas at the remote site in Staelduinen. The following cables shall be used:

- 1) 1 x RF cable for DLOS 1 external unit (Redline receiver):
  - a) 50 Ohm cable (<14 dB total loss at 100m at 850 MHz) (eg. ½” Hiflex cable EC4-50-HF-FR from Eupen AG);
  - b) N-type (male) connectors;
  - c) Power over RF;
  - d) Estimated cable length 30m (including 20m on mast);
  - a) Termination at DLOS 1 external unit at the top of the mast and at indoor unit in the external equipment cabinet placed at the base of the DLOS mast. (It is still to be determined to which of the two external cabinets).
- 2) 1 (one) x 24-core FO cable (i.e. 12 duplex pairs) from the lab to the external equipment cabinet at the base of the mast.
  - a) Terminated onto a FO SC OM3 connectors patch panel (at both ends – refer to section 5.4.2.5. for the specifications of the patch panels);
  - b) Redline receiver to be installed in the equipment rack;
  - c) Media convertor for conversion of E1 signal (i.e. RF cable) to fibre optic (i.e. fibre cable back to the lab);
  - d) Estimated cable length: 100 m.
- 3) 3x Cat 6 external data cables for DLOS 2 transceiver:
  - a) CAT 6A SFTP (external UV protected and waterproof);
  - b) Termination at DLOS 2 external unit at the top of the mast and at the external equipment cabinet at the base of the DLOS mast;
  - c) Power over Ethernet injector in the equipment cabinet;
  - d) 2 x RJ45 Connectors to fit the Proxim Quickbridge transceiver;
  - e) 2 x media convertors 10/100Mbit Ethernet to FO MM OM3 SC;
  - f) 2 x matching FO MM OM3 to 10/100 media convertors in the lab;
  - g) 1x RJ11 to serial port convertor;
  - h) Estimated cable length: 30 m.

#### 1.4.2.3 HF

Three HF antennas are to be installed from the radio mast (3 sloping dipoles). The following shall be used:

- 1) Three HF patch panels, each with:

- a) Weather sealed box (min 15 cm high x 15 cm wide x 15 cm deep), sliding panel or door at the front and sealed RF cable entry at the bottom;
  - b) 1 N-type (female) connector on each patch panel with vertical access for termination of 1 RF cable.
- 2) 3 x RF cables for HF transceiver:
- a) RG214 50 Ohm flexible cable (<6 dB total loss at 80 m at 30 MHz);
  - b) N-type (male) connectors;
  - c) Termination at 3 HF termination patch boxes as shown in Figure 4 and at the NSII lab Radio patch rack E1 in room C5-180.
  - d) Estimated cable length 30m, 50m and 80m (max 150m for RG214 @0.04 dB/m at 30 MHz).

#### 1.4.2.4 UHF LOS

One UHF omni-directional antenna is installed at the top of the radio mast. The following cables shall be used:

- 1) 1 x RF cable for UHF radios:
  - a) AVA7-50 50 Ohm flexible cable (<4 dB total loss at 120 m at 300 MHz);
  - b) N-type (male) connectors;
  - c) Estimated cable length 120 m (AVA7-50 @0.025 dB/m at 300 MHz or equivalent);
  - d) Termination at the UHF antenna in the radio mast and at the NSII lab Radio patch rack E1 in room C5-180.

#### 1.4.2.5 12 Port Duplex FO SC Multimode Patch Panel

As stated in section 5.4.2.2. (2), the contractor shall design, deliver and install two FO SC multimode patch panels; the first to be installed in one of the external equipment cabinets and the other in the path rack W12.

Fully configured panels shall include all pigtails, fusion splice protectors, couplers and other accessories needed to terminate the fibre cable.

Patch panels shall be:

- Suitable for mounting in 19" uprights (48 cm) within 19" termination cabinets or frames;
- Fixed using securing bolts and captive nuts at either side;
- Enclosed units, front mount only with no more than 400 mm front to back;
- Have an internal area for cable management, splicing and cable support, fully accessible for installation and maintenance purposes;

- Cables entering enclosed panels can be protected by appropriate protective glands or grommets and dressable with due consideration for minimum bending radii;
- Have strain relief provided at each connector with compression glands or internal clips and entrapment of yarn based impact resistance on each fibre optic cable;
- Ensure any strain on the cable or element will not be transferred to the connector;
- Equipped with horizontal and vertical cable supports compatible with all other material and accessories of the cabinet;
- Sliding tray patch panels shall be provided enabling access to fibre splice trays and rear cable entries. The panel shall not strain terminated cables or terminations when accessed;
- Management of patch cables after connection shall be integral to the patch panel, patch cord guides and a protective hinged panel shall enable horizontal routing of patch cords within the footprint of the patch panel removing requirement for separate cable management panels.
- This derivative shall have a height of 1U and present 12 OM3 duplex LC ports.

### **1.5 Detailed work packages**

[RAD-C5-180-1] The contractor shall design, deliver and install the external equipment cabinets, including power connectivity and termination, as identified in para 5.4.1.

[RAD-C5-180-2] The contractor shall calculate, deliver and install all external Wireless Radio cables as identified in para 5.4.2.

[RAD-C5-180-3] The contractor shall install external cables in proper ducts and shall apply cable labelling or colour coding to identify the cables at both sides. The ducts will be supplied by the Customer.

[RAD-C5-180-4] The contractor shall ensure that cable ducts at corners is compliant with the selected cable bend radius constraints.

[RAD-C5-180-5] Cabling shall be low smoke, low toxicity, halogen free and PVC free. No mercury, CFC/HCFC, flammable materials, nor material which could constitute a health hazard shall be included.

[RAD-C5-180-6] External cables, cable connectors and cable patch panels shall be weather proof and resistant to UV radiation.

## Annex H – CO-115268-AFAP Work Package 4.3: ITB Lab Structured Cabling Requirements

### Section 1 – Introduction

The following document address ITB Lab requirements and specifications for network, phones, video distribution over network cabling and power.

In the current configuration, ITB uses copper to connect ITB clients to the ITB network access switch and separate copper cable (CAT5/CAT6) to connect the NTI Video Matrix to the input/output video elements. The access switch and the Video Matrix are hosted in the COMMS Rack.

Fibre Optic (FO) passive infrastructure is required up to the ITB Patch Panel for classified data (NS/NC). Three options are presented below for the classified data infrastructure: One, to stay on copper, Two, to implement FO connections with media converters and Three, FO without media converters. The Purchaser requires quotes for both options and then will instruct the contractor based on funds availability.

### Room Designation

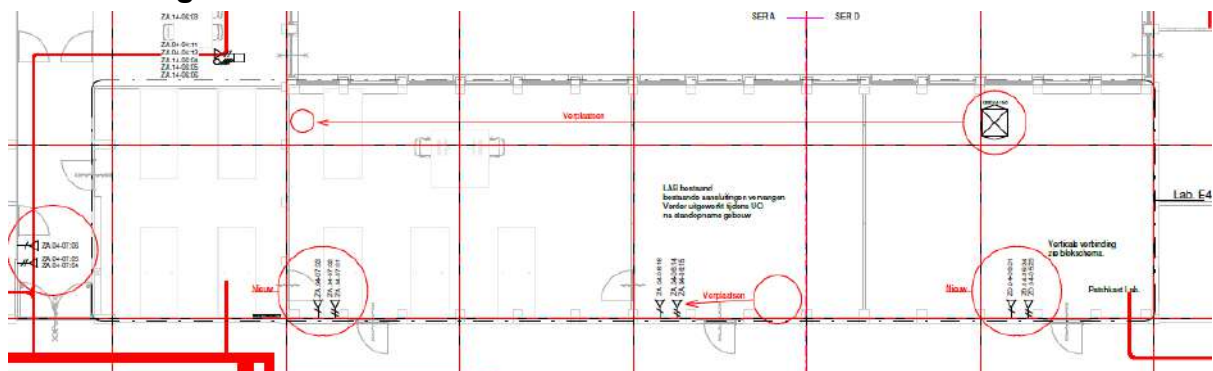


Figure 1 E4-150 Room Designation

### Section 2 - Current As-Built Drawing

The Patch Rack contains the ITB patch panels with connections to the Main Equipment Room (MER) Panels and the ITB network access switches, which are connected on one side to the ITB patch panels and on the other side to the ITB Clients, located in the E4-150 lab space. In addition, the Patch racks contain the Video Matrix Switch which links ITB input and output video elements.

The Patch Rack is located in the top right of the room as shown in Figure 1 above. This is to be re-located by the Host Nation contractor as shown in the red comment (verplaatsen) to the top centre position in the Test Event & Analysis room as shown in Figure 2 below. An option is included to adjust the position of the Patch Rack by the cabling contractor if required.

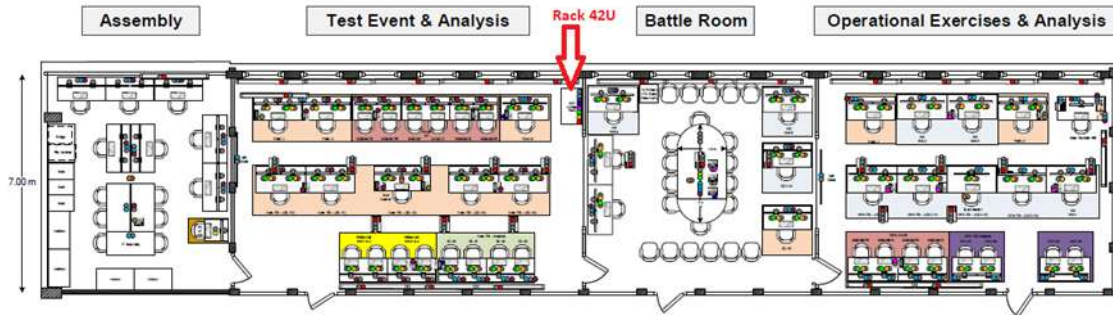


Figure 2 E4-150 Rack Location

### ITB Cabling Requirements

The PNWI cabling requirements below are broken down into four physical areas shown in Figure 2:

1. Assembly & Controller (A&C)
2. Battle Room (BAR)
3. Test Event & Analysis (TE&A)
4. Operational Exercises & Analysis (OE&A)

The COMMS Rack is situated in the TE&A area

### Summary of Requirements

Room	Classification	Qty	Comment	Purpose
A&C	NS	20	FO	<i>Assembly, Maintenance, Control operations</i>
	NU	3	Copper. Including 1 VOIP phone	
	Video Cabling	2	FO (above the ceiling panels)	
	Power <sup>1</sup>	34	2 (above the ceiling panels)	
TE&A	NS	45	FO. For 32 client and 8 VOIP Phones (2NSWAN+6CFBL)	<i>Ensemble Testing and exercise support</i>
	NU	4	Copper. for 4 VOIP phones	
	Video Cabling	26	FO (Input: 20; Output:6 on the ceiling)	
	Power <sup>1</sup>	134	26 on the ceiling	
	Patch Panel (all connections)	<b>120</b> <b>+11</b> <b>+63</b>	All network connections terminate to the Patch Panel: (CFBLNET + NSWAN) + NU + Video Optional	
BR	NS	16	FO. Including 1 NSWAN and 1 CFBLNet VOIP phones	<i>Host participants, Demo</i>
	NU	1	Copper. For 1 VOIP phone	
	NS Video Cabling	11	FO (Input: 8; Output:3 on the ceiling)	
	Power <sup>1</sup>	56	10 on the Ceiling	

<b>OE&amp;A</b>	NS	39	FO. Including 5 NSWAN VOIP Phones	
	NU	3	Copper. For 3 VOIP phones	
	Video Cable	24	FO (Input: 17; Output:7 on the ceiling)	
	Power <sup>1</sup>	114	21 on the ceiling	

Note<sup>1</sup>: The Purchaser will install all power connections

Section3: Technical Design

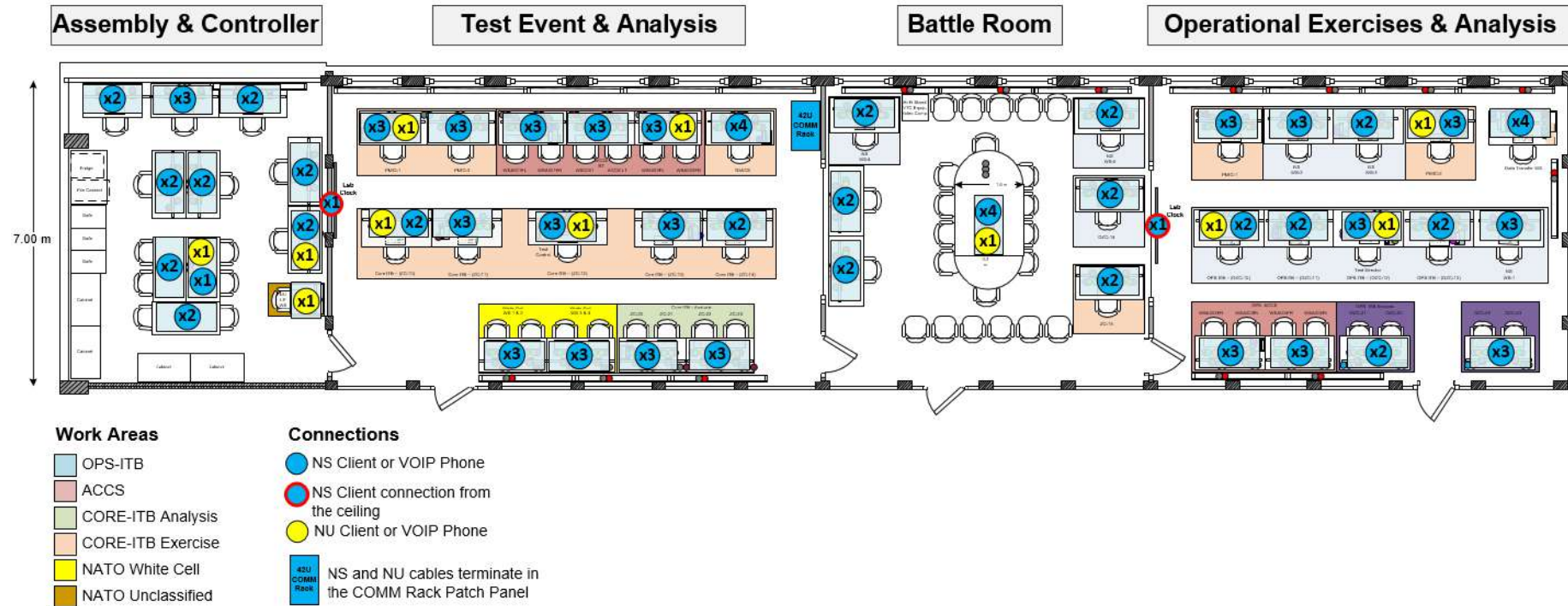


Figure 3 ITB Lab E4-150 Workstation and Phones Connections



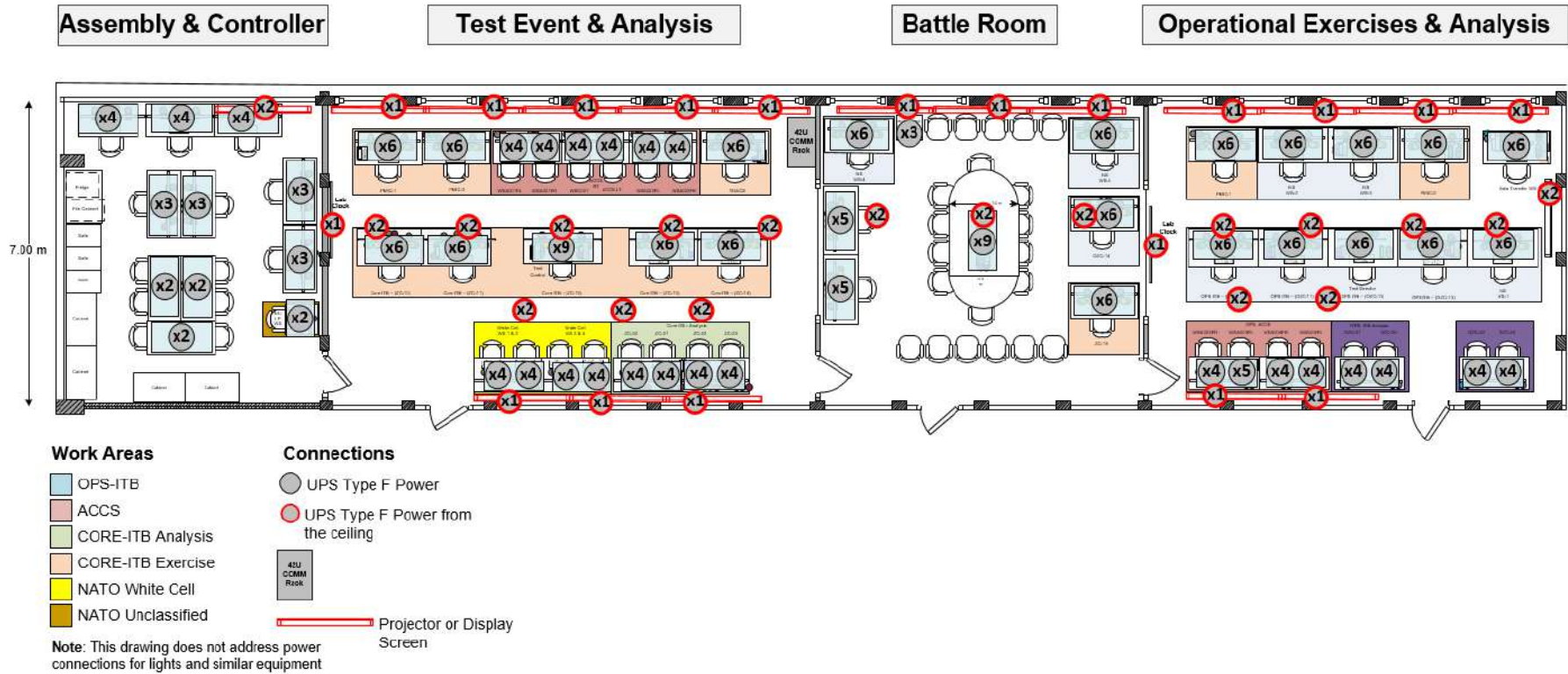


Figure 4 ITB Lab E4-150 Power Connections (Client responsibility)

## Section 4 - Detailed work packages

### Network Connections

The contractor shall provide quotes and detailed designs to deliver and install the three options below for the lab PNWI connections linking the ITB network access switches in the Patch Rack with the client workstations. The purchaser shall confirm which option is to be installed subject to funding approval.

- Design One: copper cabling between components based on copper interface (current solution)
- Design Two: fibre optic cabling with media converters between components based on copper interface
- Design Three: fibre optic cabling without media converters between components

#### Design One

[ITB-E4150-Cbl-01] The contractor shall calculate, deliver and install under the floor **120** CAT 6A cable, each one connected from the Patch Rack connectors to a 4 port distribution box located under groups of designated desks (see Figure 3, blue circles and blue circles with red outline). Media converters are not required as the current ITB design is copper based.

[ITB-E4150-Cbl-02] The contractor shall calculate, deliver and install under the floor **120** CAT 6A patch leads each one connected to a 4-port distribution box located under groups of designated desks.

#### Design Two

[ITB-E4150-Cbl-01] The contractor shall calculate, deliver and install under the floor **120** pairs of OM4 cable; each pair connected from the Patch Rack connectors to a 4-port distribution box located under groups of designated desks (see Figure 3, blue circles and blue circles with red outline). Media converters are required as the current ITB design is copper based. Media converters shall be placed under the desks and shall be accessible for maintenance. Preferred option would be to place the media converters under the floor.

[ITB-E4150-Cbl-02] The contractor shall calculate, deliver and install under the floor **120** OM4 patch leads each one connected to a 4-port distribution box located under groups of designated desks.

#### Design Three

[ITB-E4150-Cbl-01] The contractor shall calculate, deliver and install under the floor **120** pairs of OM4 cable; each pair connected from the Patch Rack connectors to a 4-

port distribution box located under groups of designated desks (see Figure 3, blue circles and blue circles with red outline). Media converters are not required as the ITB design will be upgraded to fibre optic.

[ITB-E4150-Cbl-02] The contractor shall calculate, deliver and install under the floor **120** OM4 patch leads each one connected to a 4-port distribution box located under groups of designated desks.

### **Work Packages for all designs**

[C4ISR-A5491-Cbl-03] The contractor shall calculate, deliver and install under the floor **11** CAT 6A cable, each cable connected from the Patch Rack connectors to a 4-port distribution box located under groups of designated desks (see Figure 3, yellow circles). Media converters are not required as this work package is based on the current design.

[C4ISR-A5491-Cbl-04] The contractor shall calculate, deliver and install under the floor **11** CAT 6A patch leads connected to the 4-port distribution boxes.

[C4ISR-A5491-Cbl-05] The contractor shall label all cables at both ends to correspond with the facility and desk number using the convention: A&C, TE&A, BAR, OE&A followed by the desk/client number. For example [A&C-10], [BAR-02].

### **Options**

[ITB-E4150-Opt-01] The contractor shall relocate the patch rack and extend/move as necessary the under-floor cable duct and backbone cabling. This option is dependent upon the Host Nation contractor relocating the patch rack from the current position shown in Figure 1 to the position indicated in Figure2 (red arrow).

[ITB-E4150-Opt-02] The contractor shall provide a quote to supply two personnel for 20 days (total 40 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles (or ceiling tiles) and to bring the data cables from the under-floor distribution boxes (or above the ceiling) and power cables from the busbars under the floor through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.

### **Video Distribution Option**

[ITB-E4150-Vid-01] The contractor shall calculate, deliver, install and terminate **63** pairs of OM4 cable, each pair connected from the Patch Rack connectors to the desk positions indicated on the Video Distribution cabling diagram (See Figure 5). Note that 14 connections are to be installed above the ceiling panels as shown in Figure 5 below (Video Output FO from ceiling shown as green circles with red outline). Connections are not to extend to the desk unit and are to be but left coiled up under the floor or above ceiling panels.

[ITB-E4150-Vid-02] The contractor shall relocate, connect and test the display connections to the matrix (e.g. clients, projectors, and switch)

<b>Output Video Equipment</b>	<b>Quantity</b>
Wall display monitor (A&C)	2
Wall display monitor (TE&A)	2
Wall display monitor (OE&A)	4
Wall projector screens (TE&A)	4
Wall projector screens (BR)	3
Wall projector screens (OE&A)	3
<b>Total Projectors or screens</b>	<b>18</b>

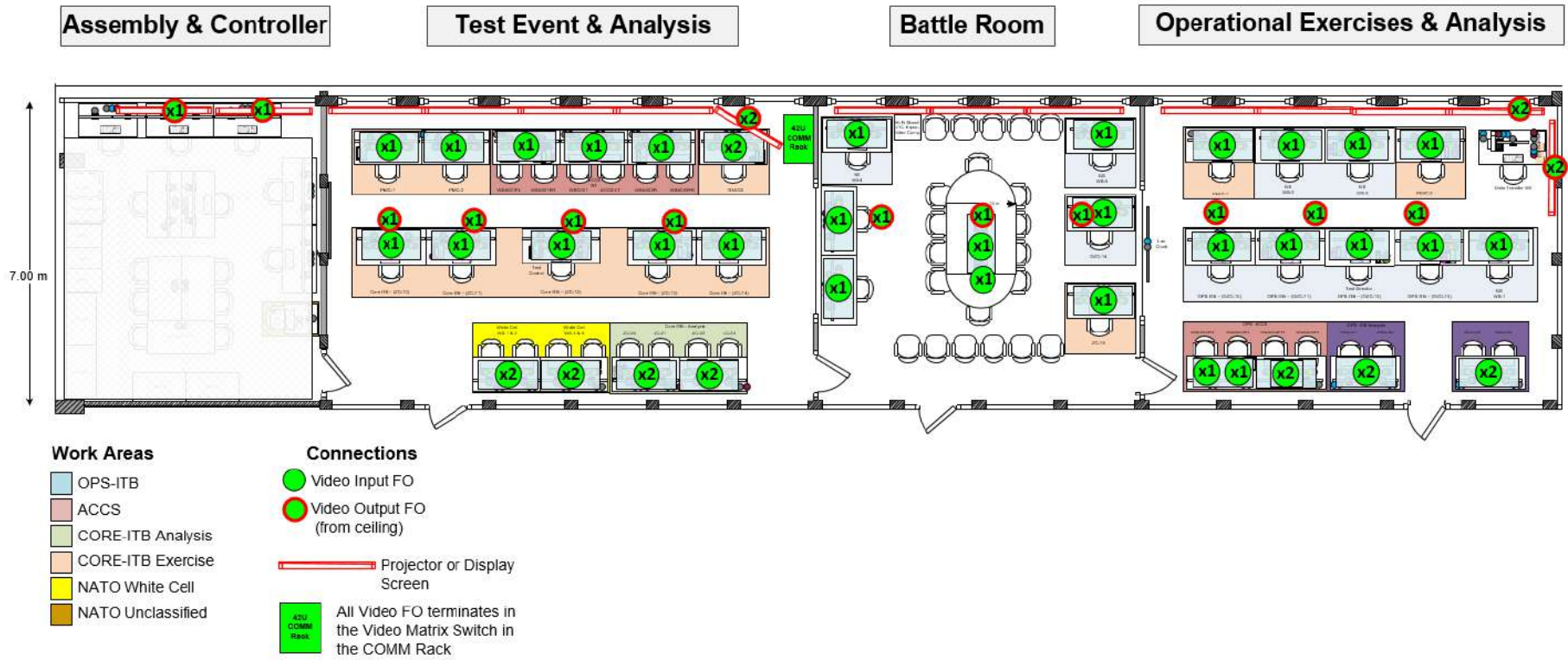


Figure 5 ITB Lab E4-150 Video Distribution Cabling (Option)

Annex I - CO-115268-AFAP Work Package 4.4: STVF Lab Room B5-180

Current As-built Drawing

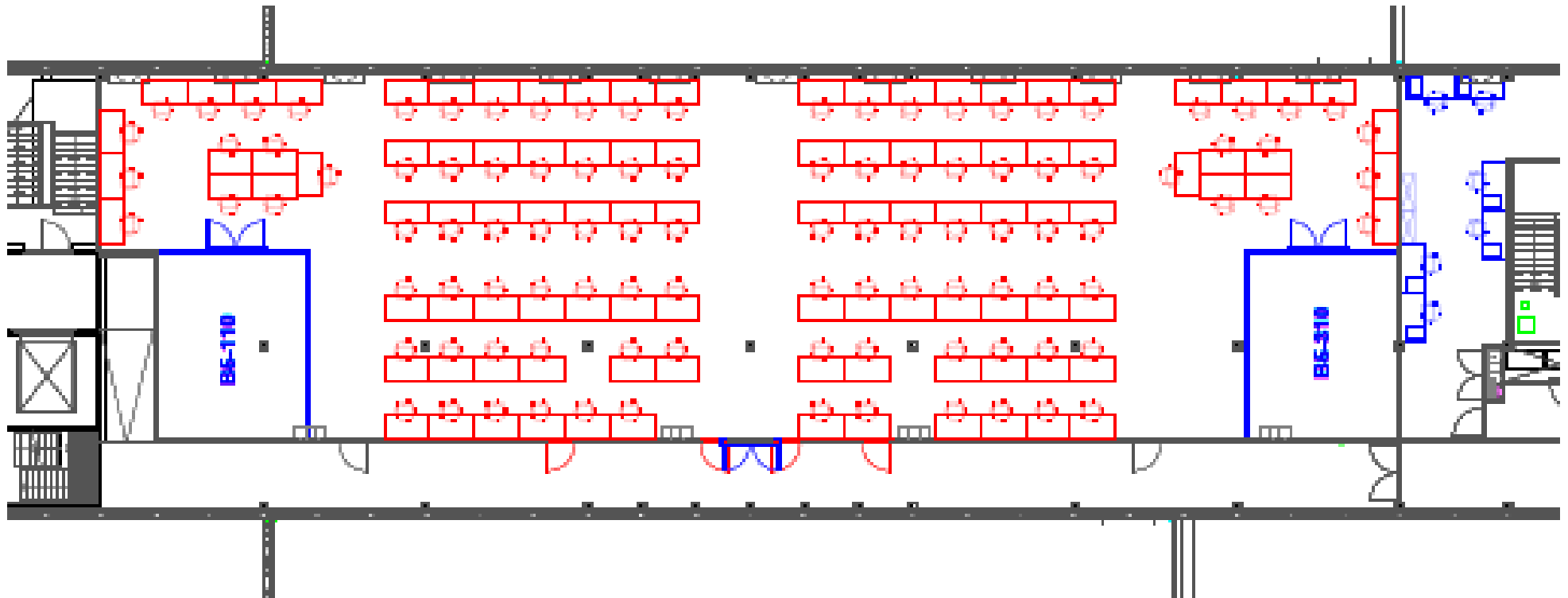


Figure 1 Above Floor as built Plan

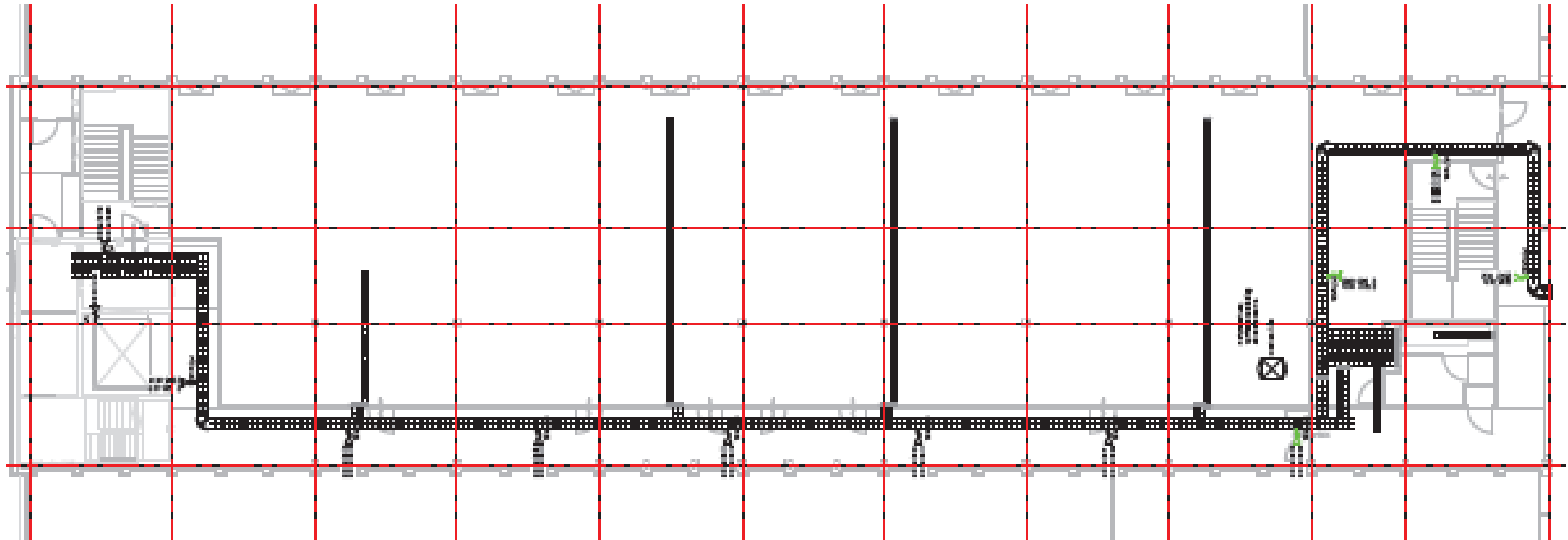


Figure 1a – Below Floor Cable Ducts

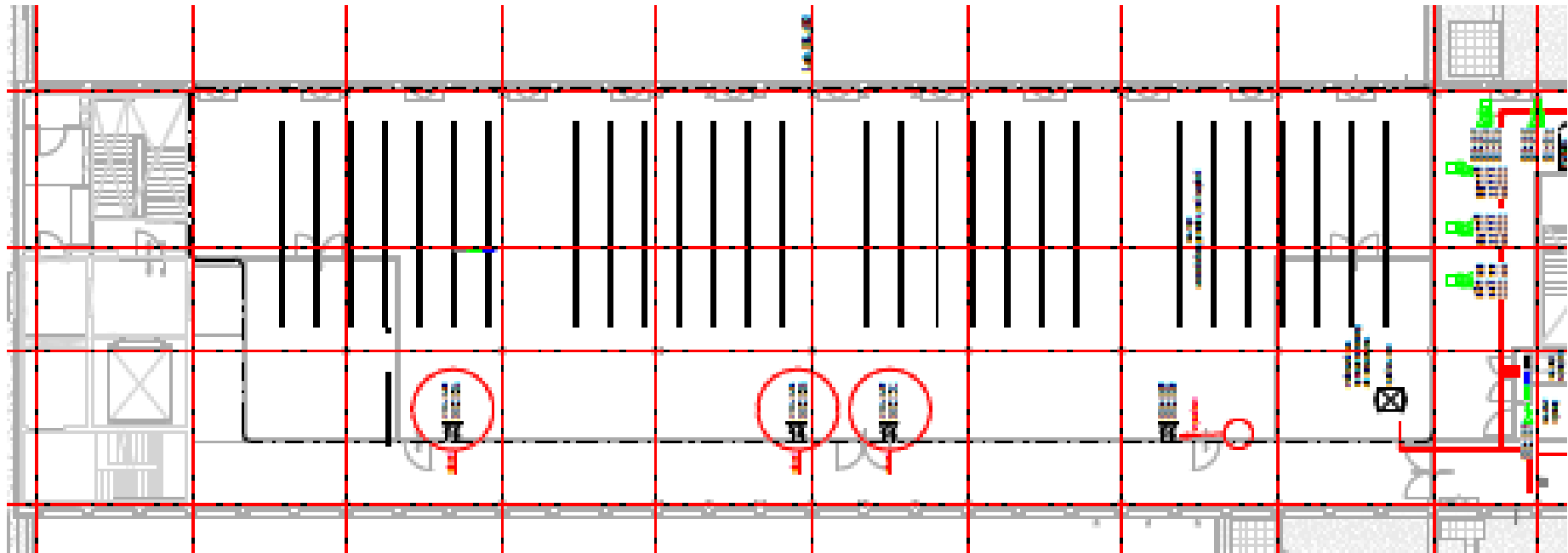


Figure 1b – Below Floor Electrical Power Supply



### Area designation

The lab area in Room B5-180 is divided into three main areas to accomplish the highest level of flexibility and scalability. These three multi-purpose areas are divided based upon security classification; permanent NS/NC (Red) on the right in Figure 2a, permanent NR/NU (Black) on the left in Figure 2a and Switchable (Yellow) in the centre in Figure 2a. The Switchable (Yellow) area is designated as Area A. The permanent areas Red and Black each have a separate server room zone with six racks (Area B, C). All NR fibre optic cables from MER will be terminated in rack A in Area B. All NS fibre optic cables from MER will be terminated in rack G in Area C. Figure 2a depicts the desk distribution within the new lab and highlights the different categories of desk-types. The different categories of desk-types is further detailed in Figure 2b-c. A summary of client types, active components, fixed equipment and furniture is provided in Table 1 below. A client type is defined as being a PC, laptop or thin-client which is used in a particular security classification as a desk.

### AMDC2 Lab Requirements

Equipment	Classification	Quantity	Purpose	Comment
STVF Client	NR	12		Client being a PC/Thin client/Laptop on a desk. In Black area (permanent).
STVF Client	NS	12		Client being a PC/Thin client/Laptop on a desk. In Red area (permanent).
STVF Client	NR/NS	84		Client being a PC/Thin client/Laptop on a desk. In Yellow area (switchable).
Racks	NS	6		Standard 19" width - 48U height units
Racks	NR	6		Standard 19" width - 48U height units
Rack	-	1	Multi-media presentation	Standard 19" width - 9U Height units
Switch 48 port	NR	6		Layer 3 Network Switch SFP/SFP+, SFP support for single-mode and multimode
Switch 48 port	NS	7		Layer 3 Network Switch SFP/SFP+, SFP support for single-mode and multimode

NATO UNCLASSIFIED

SFP Multi-mode LC – 1Gbps	-	250		To be used on L3 network switches.
SFP+ Multi-mode LC – 10Gbps	-	50	MER connection	To be used on L3 network switches.
SFP+ Single-mode LC – 10Gbps	-	26	MER connection	To be used on L3 network switches.
Patch panel 48ports/1U	NS	7	Rack G	OM LC4 fibre
Patch panel 48ports/1U	NR	7	Rack A	OM LC4 fibre
Patch panel 12/1U	NS	5	Rack H,I,J,K,L	OM LC4 fibre
Patch panel 12/1U	NR	5	Rack B,C,D,E,F	OM LC4 fibre
Patch panel 48/1U	NS	2	Rack G	CAT6A S/FTP
Patch panel 48/1U	NR	2	Rack A	CAT6A S/FTP
Patch panel 12/1U	NS	5	Rack H,I,J,K,L	CAT6A S/FTP
Patch panel 12/1U	NR	5	Rack B,C,D,E,F	CAT6A S/FTP
Media convertor	-	120		Unmanaged Gigabit Ethernet Media Converter, 1x 10/100/1000Base-T RJ45 to 1x 1000Base-X SFP Slot, AC 100V~240V
Multimode LC SFP module	-	120		To be used with media converter.
Single Tiered desk	-	86		Desk dimensions 150x80cm

NATO UNCLASSIFIED

Double Tiered desk	-	22		Desk dimensions 150x80cm
Chairs	-	108		
Safety cabinets	-	2		
Cabinets	-	2		
Hybrid Switching Solution	-	1	Media presentation	High Resolution Video & KVM Systems. ThinkLogical TLX12 & ancillaries.
Wall display monitor/screen	NU, NR, NS	4	Media presentation	2x 65" Screen 2x 85" Screen
Whiteboards	-	4		Dedicated
Phone	-	2		Shared resource

Summary - Fixed equipment

Equipment	Quantity	Comment
Lab NR Client positions	12	Located in Black area.
Lab NS Client positions	12	Located in Red area.
Lab NS/NR Client positions	84	Located in Yellow area.
Total fixed clients	108	Sum of 3 areas
Switches	16	Located in server rooms area B,C.
Racks	13	6 racks per server room, 1 in area A (main room).
Patch panels	8	Located in racks, server rooms area B,C.
Video switching solution	1	Located in Yellow area, marked as '1' in figure 2a.
Phone	2	
Wall monitor/screen	4	
Whiteboard	4	

Table 1 - Summary of STVF Lab equipment



Desk Dimension: 150 x 80

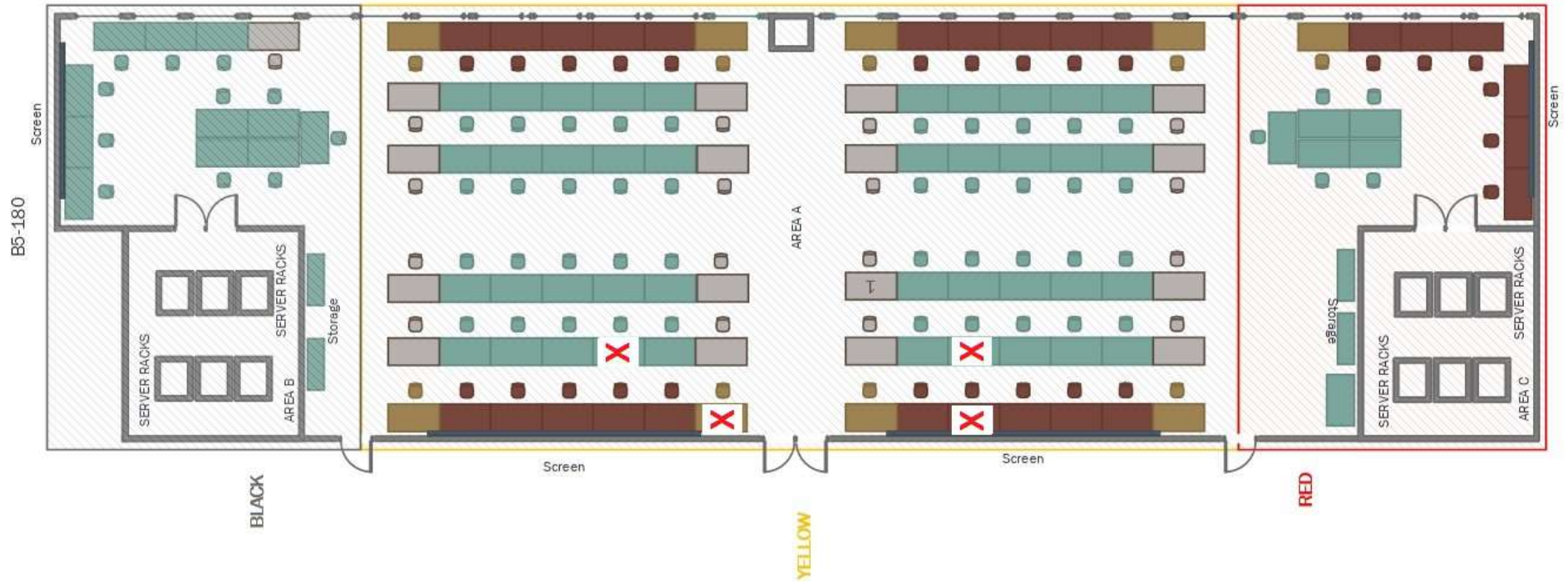


Figure 2a - B5-180 AMDC2 LAB

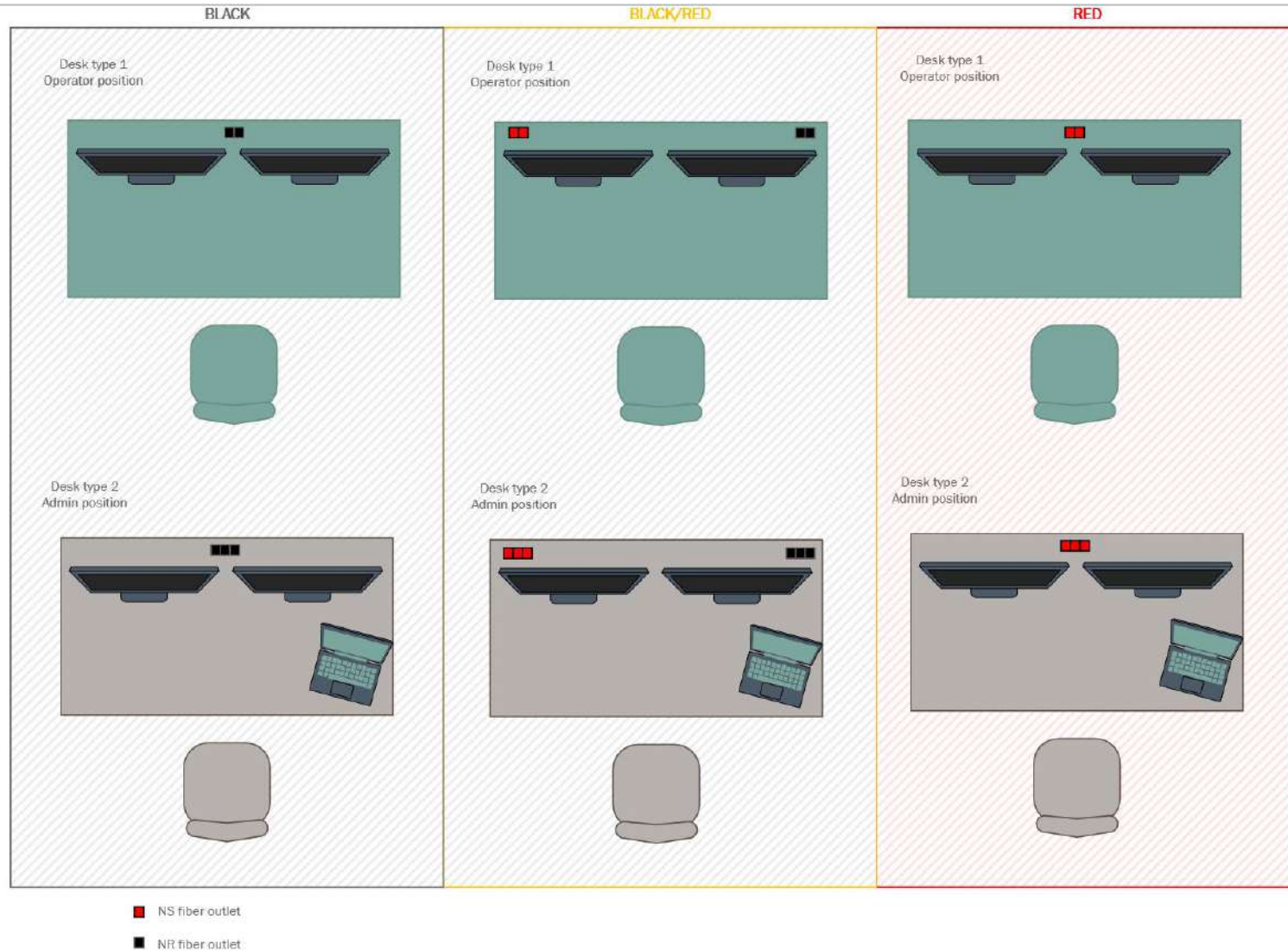


Figure 2b – Desk Categories 1

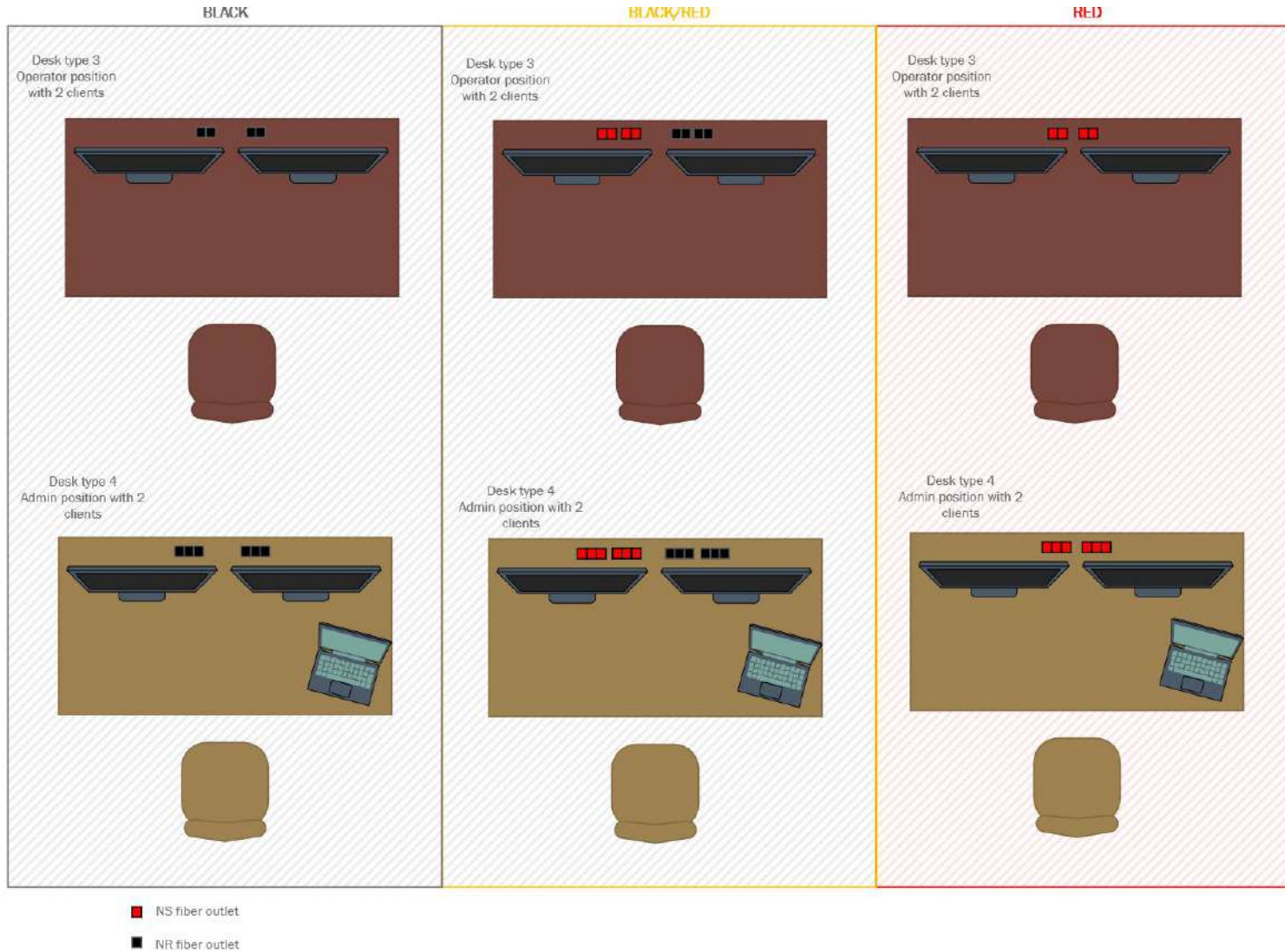


Figure 2c – Desk Categories 2



## Detailed Work Packages

### Racks:

[NAMF-B5180CABL-1] The following 19” racks (48HE height) as depicted in “Figure 2a - B5-180 AMDC LAB” are in scope for the contractor for this Statement of Work.

- a) Area B : Racks A - F
- b) Area C : Racks G - L
- c) Total: 12 racks (Area B rack A and Area C rack G are used for the central patching racks)

[NAMF-B5180CABL-2] Operator Area A – 19” rack M (9HE height) mounted on the ceiling

[NAMF-B5180CABL-3] The contractor shall deliver and install 2 PDU (minimal 24x C13 and 4x C19 per PDU) in every rack.

[NAMF-B5180CABL-4] The contractor shall deliver and install 1 rack mountable power-strip (8 sockets) in every rack.

[NAMF-B5180CABL-5] The contractor shall deliver and install 2 power sockets on the wall inside Area B and C.

[NAMF-B5180CABL-6] The contractor shall deliver and install adequate rack grounding inside Area B and C.

### Rack cabling:

[NAMF-B5180CABL-7] The contractor shall install the CAT6A S/FTP patch panels in the rack A, G.

[NAMF-B5180CABL-8] The contractor shall install the OM4 LC fiber 7 optic patch panels 48ports/1U in rack A

[NAMF-B5180CABL-9] The contractor shall install the OM4 LC fiber 7 optic patch panels 48ports/1U in rack G

[NAMF-B5180CABL-10] The contractor shall install the cabling with 1.5 meters excess over length inside the racks.

[NAMF-B5180CABL-11] The contractor shall deliver and install: 12x CAT6A S/FTP (shielded) in each rack placed in Area B towards the central patching rack A.

[NAMF-B5180CABL-12] The contractor shall deliver and install: 12x CAT6A S/FTP (shielded) in each rack placed in Area C towards the central patching rack G.

[NAMF-B5180CABL-13] The contractor shall install the CAT6A S/FTP patch panel in the top of the racks B,C,D,E,F,H,I,J,K,L.

[NAMF-B5180CABL-14] The contractor shall deliver and install: 24x strands (12 pairs) of OM4 type fiber terminated on a LC female connector in each rack placed in Area B towards the central patching rack A.

[NAMF-B5180CABL-15] The contractor shall deliver and install: 24x strands (12 pairs) of OM4 type fiber terminated on a LC female connector in each rack placed in Area C towards the central patching rack G.

[NAMF-B5180CABL-16] The contractor shall install the OM4 LC fiber optic patch panel in the top of the racks B,C,D,E,F,H,I,J,K,L below the CAT6A S/FTP patch panels.

**Desk Type cabling:**

[NAMF-B5180CABL-17] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the each Desk Type 1 position in Black area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-18] The contractor will provide 6 strands (3 pair) OM4 fiber drops to the each Desk Type 2 position in Black area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-19] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the each Desk Type 1 position in Red area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-20] The contractor will provide 6 strands (3 pair) OM4 fiber drops to the each Desk Type 2 position in Red area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-21] The contractor will provide 8 strands (4 pair) OM4 fiber drops to the each Desk Type 3 position in Red area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-22] The contractor will provide 12 strands (6 pair) OM4 fiber drops to the each Desk Type 4 position in Red area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-23] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the each Desk Type 1 position in Yellow area of B5-180. These patches should be connected to Area B - rack A central patching location.



[NAMF-B5180CABL-24] The contractor will provide 6 strands (3 pair) OM4 fiber drops to the each Desk Type 2 position in Yellow area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-25] The contractor will provide 8 strands (4 pair) OM4 fiber drops to the each Desk Type 3 position in Yellow area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-26] The contractor will provide 12 strands (6 pair) OM4 fiber drops to the each Desk Type 4 position in Yellow area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-27] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the each Desk Type 1 position in Yellow area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-28] The contractor will provide 6 strands (3 pair) OM4 fiber drops to the each Desk Type 2 position in Yellow area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-29] The contractor will provide 8 strands (4 pair) OM4 fiber drops to the each Desk Type 3 position in Yellow area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-30] The contractor will provide 12 strands (6 pair) OM4 fiber drops to the each Desk Type 4 position in Yellow area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-31] The contractor will provide 10 power socket per workbench.

[NAMF-B5180CABL-32] The contractor will provide additional 8 power sockets in workbench 1, see figure 1.

[NAMF-B5180CABL-33] The contractor shall use Panduit cable ducts for fiber optic cables - these ducts should be installed under floor and follow appropriate guidelines to meet workstation connectivity requirements.

[NAMF-B5180CABL-34] The contractor shall use Cable ladders for copper cable – these ladders should be installed under floor and follow appropriate guidelines to meet workstation connectivity requirements.

[NAMF-B5180CABL-35] The contractor shall provide floor pods patch-panel suitable for under the raised floor termination in B5-180 for all work position connections.

[NAMF-B5180CABL-36] Fiber and copper cabling shall be mounted by the contractor using VELCRO ties at regular intervals of minimum 1 meter.

[NAMF-B5180CABL-37] The contractor shall test for OM4 and CAT6A standards compliance.

[NAMF-B5180CABL-38] The contractor shall provide test reports to the purchaser.

**Roof – shaft area coaxial cabling (generic antenna requirements, i.e. ADS-B, GPS):**

[NAMF-B5180CABL-39] The contractor shall provide 8 strands (4 pairs) OM4 MM fiber towards the roof, where antennas are located, can be terminated in rack A (Black area).

[NAMF-B5180CABL-40] The contractor shall provide 8 strands (4 pairs) OM4 MM fiber towards the roof, where antennas are located, can be terminated in rack G (Red area).

**Media projection cabling:**

[NAMF-B5180CABL-41] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the workbench 1 located in Yellow area of B5-180. These patches should be connected to Area B - rack A central patching location.

[NAMF-B5180CABL-42] The contractor will provide 4 strands (2 pair) OM4 fiber drops to the workbench 1 located in Yellow area of B5-180. These patches should be connected to Area C - rack G central patching location.

[NAMF-B5180CABL-43] The contractor will provide 12 strands (6 pair) OM4 fiber drops to the workbench 1 located in Yellow area of B5-180. These patches should be connected to rack M in Area A.

[NAMF-B5180CABL-44] The contractor will provide 8 strands (4 pair) OM4 fiber drops to the workbench 1 located in Yellow area of Room B5-180. These patches should be connected to Screens in Yellow area.

**General Power Estimates:**

[NAMF-B5180CABL-45] Maximum electrical power consumption per server rack is 5kW.

[NAMF-B5180CABL-46] Maximum combined electrical power consumption in Areas B and C is 60kW.

[NAMF-B5180CABL-47] Area A desks or work-positions have an average maximum electrical power consumption of 0,12kW.

**General Cooling Estimates:**

Following presumptions are taken: a) lighting heat load is negligible. b) 50 people working in main area as an average.

Following are estimates of generated thermal energy:

Area A (main):  $43,3 \times 10^3$  BTU/hr (max) + lighting (BTU/hr) + people (400 BTU/hr x 50 =  $20 \times 10^3$  BTU/hr)

Area B (server):  $102,3 \times 10^3$  BTU/hr (max) + lighting (BTU/hr)

Area C (server):  $102,3 \times 10^3$  BTU/hr (max) + lighting (BTU/hr)

**Option**

[NAMF-B5180-Opt-01] The contractor shall provide a quote to supply two personnel for 20 days (total 40 Man Days of labour) to support the purchaser to make holes in the suspended floor tiles (or ceiling tiles) and to bring the data cables from the under-floor distribution boxes (or above the ceiling) and power cables from the busbars under the floor through the holes to groups of desks. Cables are to be attached to desk legs with plastic ties and terminate in the desk mounted power and data adapters. This option is to be executed after the Lab is completed and handed over to the purchaser.