



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ  
Μόνιμη Αντιπροσωπεία της Ελλάδος  
στο ΝΑΤΟ

Αρμόδιος: Ασχος (ΜΕ) Δημήτριος Κανταρτζόγλου  
Τηλ.: +32 2 707 6734  
e-mail: [d.kantartzoglou@grdel-nato.be](mailto:d.kantartzoglou@grdel-nato.be)

Βρυξέλλες, 05 Μαΐου 2022  
Α.Π.: 2444

ΠΡΟΣ: ΥΠΟΥΡΓΕΙΟ ΕΘΝΙΚΗΣ ΑΜΥΝΑΣ  
- ΓΔΑΕΕ/ΔΑΕΤΕ (μ.η.)

ΚΟΙΝ.: ΥΠΟΥΡΓΕΙΟ ΕΞΩΤΕΡΙΚΩΝ ΓΕΕΘΑ  
- κ. Δ' Γενικό Διευθυντή - Γ2 Διεύθυνση  
- Δ2 Διεύθυνση  
ΥΠΟΥΡΓΕΙΟ ΑΝΑΠΤΥΞΗΣ (μ.η.)  
- Γενική Γραμματεία Εμπορίου  
- Γενική Γραμματεία Βιομηχανίας/  
Διεύθυνση Διεθνών Βιομηχανικών  
Σχέσεων  
ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΕΛΛΑΔΟΣ (μ.η.)  
- Διεύθυνση Επαγγελματικής  
Δραστηριότητας

ΘΕΜΑ: 1<sup>η</sup> Τροποποίηση Πρόσκλησης Υποβολής Προσφορών, IFB-CO-15577-SSSB, Διαγωνιστικής Διαδικασίας για το Έργο "Reorganisation of Ship-Shore-Ship Buffer (SSSB) Capability Including Associated Communications Systems" (SERIAL 2015/OCM03072 - 02,03 & 05)

Διαβιβάζεται, συνημμένως, 1<sup>η</sup> Τροποποίηση Πρόσκλησης Υποβολής Προσφορών (Invitation For Bid/IFB) διαγωνιστικής διαδικασίας International Competitive Bidding (ICB), εκ μέρους ΝCΙΑ, ως φιλοξενούντος έθνους, για υλοποίηση εν θέματι έργου σε Ηνωμένο Βασίλειο, Ελλάδα και Ολλανδία, Π/Υ 30,849,828 €.

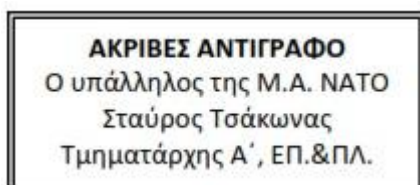
Καταληκτική ημερομηνία υποβολής προσφορών, σε ΝCΙΑ, ορίζεται πλέον η Τρίτη, 2<sup>α</sup> Ιουνίου τ.έ., 14:00 CET.

Ενδιαφερόμενες εταιρίες δύνανται αναζητήσουν πληροφορίες μέσω καθορισμένου σημείου επαφής (Point of Contact/POC, βλ. παρ. 5 τροποποιήσεως).

Παρακαλούμε για τις ενέργειές σας.

Λ Α Μ Π Ρ Ι Δ Η Σ

Συν. σελ.: 44



To : Distribution List

Subject : Amendment 1 – IFB-CO-15577-SSSB

Reorganisation of Ship-Shore-Ship Buffer (SSSB) Capability Including Associated Communications Systems

**Answers to Clarification Requests and 14 days extension of Bid Closing Date**

References : A. AC/4-2261 (1996 Edition)  
B. NOI IFB-CO-15577-SSSB- Amdt 1, dated 11 Nov 2021  
C. Issuance of IFB-CO-15577-SSSB, dated 22 Feb 2022

1. In accordance with Reference A, the purpose of this Amendment 1 is to provide a requested 14 days extension of the Bid Closing Date to the IFB-CO-15577-SSSB and to respond to the Clarification Requests received from Prospective Bidders.
2. Relevant Purchaser Provided Clarifications are hereby issued in Annex A. Please note, for a number of Clarification Requests the Purchaser is still awaiting information. As a result of the clarification provided herewith, the IFB documents will be revised and sent, together with the remaining open Clarifications, as soon as possible as a new Amendment to the IFB.
3. The Book I, Part I, Bidding Instructions, Section 2, General Bidding Information, Paragraph 2.3 of the IFB-CO-15577-SSSB as stated in reference C will hereby be revised, as follows:

FROM "Thursday, May 19, 2022 at 14:00 Hours Central European Time (CET)"

TO "**Thursday, June 2, 2022 at 14:00 Hours Central European Time (CET)**"

4. Except as provided in the paragraphs above, all other terms and conditions of the Invitation for Bid remain unchanged.
5. The Purchaser Point of Contact for all information concerning this IFB is:

Mr. Martin Steenwege, Senior Contracting Officer, Acquisition  
E-mail address: [IFB-CO-15577-SSSB@ncia.nato.int](mailto:IFB-CO-15577-SSSB@ncia.nato.int), with copy to  
[Martin.Steenwege@ncia.nato.int](mailto:Martin.Steenwege@ncia.nato.int)

FOR THE CHIEF OF ACQUISITION

Mr. Martin Steenwege  
Senior Contracting Officer



Enclosures:

Annex A: Answers to Clarification Requests IFB-CO-15577-SSSB-Amendment 1

Annex B: Distribution List for IFB-CO-15577-SSSB-Amendment 1

Annex C: Final Bidders List for IFB-CO-15577-SSSB

**ANNEX A**

**Answers to Clarification Requests IFB-CO-15577-SSSB-Amendment 1**

<b>ADMINISTRATION or CONTRACTING</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>A.1</b>	Book I, Section 4.1.6	When, to what extent, how detailed and based on which procedure does the HN (Agency) intend to communicate the bid details of the winner to the not successful Bidders?	Results of competition notification will be in accordance with procedure AC/4 -D/2261 (1996 Edition) for International Competitive Bidding: The NCI Agency will notify all unsuccessful Bidders in writing at contract award. The notification should include: - the number of Bidders solicited; - the number of bids received; - the name of the apparent winning company; and, - the apparent winning bid's overall price.	Closed
<b>A.2</b>	SOW Annexes B, E, and H	Can we obtain lists of companies approved by the Territorial Host Nations for civil and other works on the sites?	Please see T.9.	Closed
<b>A.3</b>		The current timeline is unreachable due to risks with the civil works. Please extend the closing date of the bid. At least 6 months is required to review and design the civil works.	In accordance with procedure AC/4 -D/2261 (1996 Edition), any requests for extensions of the Bid Closing Date can only be submitted by the National Delegations. Therefore, please contact your Delegation for this request.	Closed
<b>A.4</b>		Due to the risks and too many variables around the civil works, please consider revising the procurement strategy to Best Value. Lowest Cost Compliant will not work on this project because of the nature of the civil works.	NATO Nations' authorization for this project was for a Lowest Priced Technically Compliant Bid. The NCI Agency can therefore not change the procurement strategy to Best Value.	Closed

<b>ADMINISTRATION or CONTRACTING</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>A.5</b>	IFB-CO-15577-SSSB-UK-GR-NL, Book II, Part II, Page 24, Paragraph 26.4.	Does "All Contractor and Sub-Contractor(s) personnel working on this Contract shall have a security clearance of "NATO SECRET" confirmed to the Purchaser by the relevant National Security Authority" statement also applicable for workers who will work for cable laying and termination or cable trench digging, etc? We would like to kindly ask to NCIA to provide as much as possible and clear definition about who should have the "NATO SECRET" level security clearance.	Contractor personnel who are not entering a Class II area or equivalent (meaning they have no access to classified systems or information) do not require a security clearance.  Change will be reflected in Amendment 2.	Amd 2
<b>A.6</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Page 161, Paragraph 14.1.12	Does Security clearance of the installation team also applicable for ordinary worker as stated in question A.5?	Contractor personnel who are not entering a Class II area or equivalent (meaning they have no access to classified systems or information) do not require a security clearance.  Change will be reflected in Amendment 2.	Amd 2
<b>A.7</b>	IFB-CO-15577-SSSB-Book II-Part II and III – Prospective Contract, Annex D, Page 1, Schedule of Payment Milestones	In IFB documents most of the timelines refer to months rather than weeks. We would like to kindly ask you to modify Major Performance Milestones based on months rather than weeks.	Major Performance Milestones are expressed in EDC + weeks. Once EDC is known at contract award, actual dates will replace the 'EDC + weeks' in the Major Performance Milestones. If inconsistency in dates, the hierarchy of documents shall prevail.	Closed

<b>ADMINISTRATION or CONTRACTING</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>A.8</b>	IFB-CO-15577-SSSB-Book II-Part II and III – Prospective Contract, Annex D, Page 1, Schedule of Payment Milestones	We would like NCIA to review and make some changes on Project Time Plan and Major Milestones including payment terms.		Open
<b>A.9</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Annex A, Paragraph 4.10.1. e.	In the event that historical artefacts are found during the excavation of the foundation, will the suspension of the work be considered within the scope of force majeure?	NCI Agency confirms any findings of any historical/ archaeological artefacts and associated time and efforts required to address them according to respective THN laws and regulations shall be considered as 'force majeure'.	Closed
<b>A.10</b>	IFB-CO-15577-SSSB - Book I - Part I , Sec 1.5 and Sec. 1.6	In order to share with local companies in UK, Netherlands and Greece the Restricted information present in the Bidders Library documents and mandatory for the evaluation of the local civil works, we understand that the previous approval of NCIA is needed. Furthermore the acquisition of the proper clearance by local companies can be a long process that could significantly delay project. We therefore ask NCIA to provide a list of local civil companies in each Country having already the necessary clearance to work in NATO sites and the NCIA approval to receive	For the distribution of the Bidders Library to subcontractors, please send to the Purchaser's Point of Contact (in Book I, Part I, Bidding Instructions, Paragraph 2.6) the Non-Disclosure Undertaking (in Book I, Part I, Bidding Instructions, Annex D) signed by the subcontractor and wait for NCI Agency confirmation before releasing the Bidders Library documents to them.  The Contractor is required to follow NATO Security Regulations.	Closed

<b>ADMINISTRATION or CONTRACTING</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
		through the proper channels and procedures such Restricted documents	NCI Agency cannot provide "a list of local civil companies in each Country having already the necessary clearance to work in NATO sites and the NCIA approval to receive through the proper channels and procedures such Restricted documents".  Please note that the list of companies identified in T.9 may or may not have the necessary NATO Clearances as required.	
<b>A.11</b>	IFB-CO-15577-SSSB-UK-GR-NL, Part II, Annex D	As mentioned in the schedule of payment milestones, we would like to ask whether it is possible to invoice the milestones for each of the Territorial Host Nations (THNs) separately.		Open

<b>PRICE</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>P.1</b>		The contract notice issued on 21 Oct 2020 contained an estimated value of EUR 30.8M. Has this been updated since and if so to what?	NOI Amendment 1 published on 11 Nov 2021 supersedes the NOI of 21 Oct 2020. The estimated budget had not been changed.	Closed
<b>P.2</b>		Can you provide a breakdown of the estimated budget between work package 1 and 2 (CW + CIS)?	A further breakdown of the budget is not available.	Closed
<b>P.3</b>		The estimate of the cost to do this project is out of date. Due to worldwide inflation and shortage of raw materials please update the budget estimates.	The budget was authorized by NATO Nations. In case the Bid of the apparent winner exceeds the estimated budget, NCI Agency will request extra funding to the NATO Nations and the award of the contract will be conditional to this request being authorized.	Closed

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>T.1</b>	Book II Part IV SOW Annex D Chapter 3.4 Transmitter HF/SSB 5 Kw	Requirement 3.4.3 and 3.4.4 jj forced air circuit cooling system for HF TX. Nowadays highly reliable self-sufficient cooling system transmitters are available on the market. These modular designed and liquid cooling - state of the art, 3rd generation technology provide highest reliability and lowest operating costs. These liquid cooled transmitters are completely independent of the cooling system of the infrastructure. We assume that liquid cooled 5 kW transmitters, compliant to the requirements as stated at chapter 3.4 Rack Transmitter HF/SSB – 5 kW, can be offered as well.	NCI Agency confirms liquid cooled 5 kW transmitters, compliant to the requirements as stated at chapter 3.4 Rack Transmitter HF/SSB – 5 kW, are allowed and will be reflected in Amendment 2.	Amd 2
<b>T.2</b>	Book II, Part IV, SOW Annex D, Page 46, v.i/ii/iii/iv	Out-of-band noise Reference STANAG 5511, ed 6, ch 7, 7.1.g (2) Can you confirm out-of-band noise is measured on Rx sites on the output of the transmitter?	NCI Agency confirms out-of-band noise is measured on Rx sites on the output of the transmitter.	Closed
<b>T.3</b>	SOW Annex D, 3.5	UHF Transceivers must be upgradeable to Saturn a) Must radios be upgradeable internally or can be upgradeable by adding additional (external) hardware? B) How the required fixed frequency UHF filters will work with the Saturn upgrade?	a) SATURN Voice is required for GBR and GRC UHF transceivers but not for NLD. The upgradability is related to the Link 22 EPM function, which is based on SATURN. The UHF radio shall be the same for all three Nations therefore with the same solution. b) The UHF filters and/or amplifiers shall operate also in SATURN mode.	Closed



TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			NOTE: depending on the technology and design of the radio the filters/amplifiers may be external or internal modules.	
T.4		NCI Agency will provide the comms control system to integrate with the Contractor's radios. Who owns the risk of this interface not working correctly?	Risk is on NCI Agency SSSB Section Software integration, provided that the radio ICDs and MIBs, delivered by the Contractor for the radio(s), are identical with the remote control interface firmware of the related radio(s).	Closed
T.5		Is there a requirement for the existing SSSB capability to remain operational during the upgrade of each site?	<p>UK - RRH Saxa Vord UK - Shetland Islands Second – With RRH Benbecula up THN UK may not need to keep the existing site on line, especially if RRH Portreath still online.</p> <p>UK - RRH Benbecula UK - Outer Hebrides Priority – Nil there.</p> <p>UK - RRH Portreath UK - Mainland Third – with 2 other sites complete, THN UK may not need to keep RRH Portreath operational during upgrade.</p> <p>GRC - There is no requirement for the existing SSSB capability to remain operational during the upgrade of the GRC sites.</p> <p>NLD -Confirmed that there is a requirement for the existing SSSB capability to remain OPS during the upgrade as mentioned by the staf officers below.</p> <p>HF:</p> <ul style="list-style-type: none"> <li>• TX 1 / 2 at Julianadorp operational together with RX 1 / 2 at Noordwijk</li> </ul>	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<ul style="list-style-type: none"> <li>• TX 3 / 4 at Zeewolde (at this moment Ouddorp) operational together with RX 3 / 4 op Noordwijk.</li> <li>• This means that activities cannot be performed per site, but are transmitter/receiver dependent</li> </ul> <p>UHF:</p> <ul style="list-style-type: none"> <li>• There are 2 TRX at Den Helder (Albatros). Primary one should be operational for TDL-comms with the navy and E3. UHF has a lower priority then HF, because UHF TDL primary is used for Link 16.</li> </ul> <p>All of the above depends when the sites are modified. If the modification is conducted after 1-1-2025 all sites can be modified at the same time (due to sunset date L11). Please keep in mind that if we are able to successfully implement Link 22 before the upgrade of the sites we do need the radio sites as mentioned above.</p>	
T.6	civil works	Please confirm that any RF cables supplied within the facilities are GFE.	<p>If the Contractor chooses to re-use existing RF cables, the Contractor shall test/measure the existing RF cables for proper functionality. The Contractor shall provide and install new RF cables if proper functionality of existing RF cables does not meet the functional requirements.</p> <p>The only sites where RF cabling is offered are the NL sites.</p>	Closed

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.7</b>	civil works	Please confirm if the Contractor is required to carry out RADHAZ predictions in accordance with ICNIRP Regulations.	<p>UK - In the UK, bidders need to carry out RADHAZ predictions. Details can be found in ICNIRP Guidelines for Limiting Exposure to EMF (100 KHZ TO 300 GHZ).</p> <p>GRC -Please refer to para 2.6.3 of Section 2 (Description of the Civil Works) of Annex I for further details.</p> <p>NLD - The RADHAZ predictions shall be calculated by SME's within the Netherlands. These experts work for the royal Dutch navy and are able to carry out these calculations once they have the data sheets of the antenna</p>	Closed
<b>T.8</b>	civil works	Please confirm if the THN's are responsible for obtaining any planning permissions for new antennas.		Open
<b>T.9</b>	Book II, Part IV	Sub-Contractors approved by each THN?		Open
<b>T.10</b>	Book II, Part IV, Annex D	How long is taken for permissions? Is schedule affected?	<p>Also refer to T8 Above.</p> <p>UK - No need to obtain "the urbanistic certificate" from the regional and/or local authorities according to the MINISTERIAL DECISION 26229/1123/1987 (Government Gazette 749/D'</p>	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<p>10.8.1987) "Terms and procedure for issuing building permits for the execution of military projects" NATIONAL DEFENSE AND ENVIRONMENT, SPATIAL PLANNING &amp; PUBLIC WORKS:"1) The studies for the issuance of these licenses are prepared by the techniques services of the Ministry of Defense and must be in accordance with applicable laws relevant provisions.2) The architectural studies for projects or installations that are performed inside approved road plans or within settlement boundaries are approved by locally responsible urban planning services. Such approval is not required for projects or installations carried out in or outside camps are within approved road plans or settlement boundaries or and outside of these as well as in areas outside of approved road plans or settlement boundaries.3) The above building permits must be in accordance with urban planning provisions that apply each time and the terms and building restrictions of the area.</p> <p>GRC - No need to obtain "the urbanistic certificate" from the regional and/or local authorities according to the MINISTERIAL DECISION 26229/1123/1987 (Government Gazette 749/D' 10.8.1987) "Terms and procedure for issuing building permits for the execution of military projects" NATIONAL DEFENSE AND ENVIRONMENT, SPATIAL PLANNING &amp; PUBLIC WORKS:"1) The studies for the issuance of these licenses are prepared by the techniques services of the Ministry of Defense and must be in accordance with applicable laws relevant provisions.2) The architectural studies for projects or installations that are performed inside approved road plans or</p>	

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<p>within settlement boundaries are approved by locally responsible urban planning services. Such approval is not required for projects or installations carried out in or outside camps are within approved road plans or settlement boundaries or and outside of these as well as in areas outside of approved road plans or settlement boundaries.3) The above building permits must be in accordance with urban planning provisions that apply each time and the terms and building restrictions of the area.</p> <p>NLD - Estimated permit processing time in weeks:1 Noordwijk - 70 weeks (worst case)2 Julianadorp - 15 weeks 3 Zeewolde - 15 weeks 4 Den Helder Albatros - 15 weeks</p>	
<b>T.11</b>	Book II Part IV SOW Annex D	Usually at areas like special protections (NATURA 2000), only allowance are provided in case is required to guarantee National Security. In these cases, the authorizations process is performed between the National Administration authorities (MoD with national/regional or local authorities). Please confirm who will be the responsible for that.	<p>NATURA 2000 area refers to only one site in NLD. NLD MoD will do all coordination, administrative effort etc. to assure that the Contractor can work in NATURA 2000 area.</p> <p>Permits as shown in the table at T.10 above, include environmental permits within the NATURA 2000 area of Noordwijk. Costs are included in the cost estimate. THN NLD shall provide the latest report of the exciting coax cables for Noordwijk. The government real estate then is able to calculate the exact cost for the permits and placement of the antenna + foundation at a later date.</p>	Closed

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.12</b>	Book II Part IV SOW Annex D	If Contractor is finally the responsible of the authorization process, some delays can be expected. Who will take the responsibility of this delay? How does the contract protect the Contractors?	THN law and regulations define timelines within which THN authorities shall authorize/ issue respective permits. In its Bid schedule the Contractor shall include an estimated duration based upon stipulated law and regulations for given authorization / permit. If THN authorities exceed these timelines the Contractor will not be held responsible for associated delays. However, if the Contractor fails to provide all required documentation (correct, complete, formatted as required and compliant with THN respective law and regulations) to obtain given authorization / permit, and by this creates delays, the responsibility of such delays remains with the Contractor.	Closed
<b>T.13</b>	Book II, Part IV, Annex A, 2.1.6.	Please confirm this requirement is also valid for the 2 other THNs.		Open
<b>T.14</b>		Do you confirm UHF radio shall be EPM (HQ II and SATURN) compliant?	NCI Agency confirms that UHF radio shall be EPM (HQ II and SATURN) compliant.	Closed
<b>T.15</b>		Do you confirm that the L22 EPM capability is only to be upgrade option? What test shall be required to demonstrate those L22 EPM capability?	The Link 22 EPM is an Upgrade Capability.  The upgrade shall be performed via SW upgrade (HW interface already present).  The L22 EPM SW upgrade shall EXIST latest at time of the	Amd 2

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<p>COMMS Radio Site Acceptance Test (RSAT) - meaning: The UHF Radio Manufacturer shall provide a written statement containing</p> <ul style="list-style-type: none"> <li>- The L22 EPM SW Upgrade Part Number</li> <li>- L22 EPM NSN</li> <li>- A statement about how the upgrade is integrated</li> </ul> <p>Capability demonstration shall be at either:</p> <p style="padding-left: 40px;">A. Can be performed at COMMS site by Software upgrade by HN COMMS experts:</p> <ul style="list-style-type: none"> <li>- Delivery lead time (arrival at the Purchaser) not exceeding four (4) weeks after a L22 EPM purchase request submitted by the Purchaser to the equipment manufacturer - for the radios under this contract.</li> </ul> <p style="padding-left: 40px;">B. Must be performed at Manufactures Premises:</p> <ul style="list-style-type: none"> <li>- Shipment of L22 EPM upgraded equipment from the manufacturer premises to the Purchaser not later than four (4) weeks after equipment delivery at manufacturer premises - for the radios under this contract.</li> </ul> <p>Change will be reflected in Amendment 2.</p> <p>Qty x 100 W UHF radio transceivers upgradable to support Link 22 EPM. The UHF radios shall be upgradeable latest at Radio</p>	

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<p>Site Acceptance Test (RSAT).</p> <p>The information above will be reflected in a future Amendment.</p>	
<b>T.16</b>	<p>Book I Instructions To Bidders chapter 1.2 Book II Part IV SOW Annex D Chapter 2.10.3 UHF Components and Chapter 3.5 UHF TRx Assembly</p>	<p>Requirement 1.2.3.1 Replacement of UHF amplifiers with new equipment supporting the SATURN standard. Requirement [A] b i The UHF radios shall be upgradeable latest at Site Acceptance Test (RSAT) Requirement 3.5.1 UHF TRX have to be upgradeable for Link 22 EPM, voice HQII and SATURN capability. Can NCI Agency explain the meaning of supporting the SATURN standard and have to be upgradeable for SATURN. According to our interpretation supporting is not the same as upgradeable. For clear understanding and avoidance of doubt, must upgrade of SATURN be part of the scope and implemented latest during RSAT?</p>	<p>Please see T.3:</p> <p>a) SATURN Voice is required for GBR and GRC UHF transceivers but not for NLD. The upgradability is related to the Link 22 EPM function, which is based on SATURN. The UHF radio shall be the same for all three Nations therefore with the same solution.</p> <p>b) The UHF filters and/or amplifiers shall operate also in SATURN mode.</p> <p>NOTE: depending on the technology and design of the radio the filters/amplifiers may be external or internal modules.</p>	Closed



<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>T.17</b>	Book II Part IV SOW Annex D Chapter 3.5.UHF TRx Assembly	Requirement 3.5.4 Tunable RF filter to improve the selectivity performances of the UHF Link 11 transceiver assembly. Only UHF Link 11 is listed here. Nothing is mentioned here about L22 EPM , HQII and SATURN. Tunable RF filter have to be upgradeable for L22 EPM, HQII and SATURN? For clear understanding and avoidance of doubt, must upgrade of hopping filters be part of the scope and implemented latest during RSAT?	Please see T.3.  FULL functionality of the SSSB system is required which includes the upgrade of the hopping filters as needed.  Further information will be reflected in Amendment 2.	Amd 2
<b>T.18</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 1.4.4, Radio Management	Will NCIA develop the new drivers for OSCC for equipment will be provided by the Contractor?  If yes what sort of information will be required from Contractor by NCIA?	The NCI Agency SSSB Section will develop new drivers for COMMS equipment, needed for COMMS control. To implement the remote control of COMMS equipment, the Contractor shall provide the related ICDs to NCI Agency.  Further information will be added in Amendment 2.	Amd 2
<b>T.19</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW – Annex A, Paragraph 2.2 Connectivity	It was stated that there are main and fallback (backup) connections will be provided by UK MOD as part of their National Defence Network.  Please confirm whether that exchange between main	The Contractor is responsible for the automatic switching from Major to Backup NDN connection as part of the scope of this contract.  The NDN itself does not fall under the scope of this contract, as it is provided by the THN.	Closed

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
		and backup networks will not be under the scope of Contractor or not.		
<b>T.20</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 2.14.2.e, Summary of Responsibilities	Please confirm that whether implementation of DLOS microwave inter-site communication links, is alternative to the backup NDN which is already exist or it is actually backup system itself.	The DLOS microwave inter-site communication link is not an alternative to the NDN.	Closed
<b>T.21</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 2.4.4	Please clarify that whether technical support shall be provided by the Contractor to Purchaser includes and software development engineering activities or not?	<p>Technical support for PFE does not include software development activities (meaning within OSCC).</p> <p>Includes engineering support providing the technical documentation and support to the Purchaser in the configuration and customisation of the sub-system in relation to the communication equipment.</p> <p>(LC) The eventual PFE configuration modification shall be documented, in the frame of standard thechnical process, as following:</p> <ol style="list-style-type: none"> <li>1.Configuration documentation</li> <li>2.Technical Manuals,</li> <li>3.Technical documentation</li> <li>4.Training materials</li> </ol>	Closed

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
			to be delivered in the frame of contract and shall be subject of the training	
<b>T.22</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 2.4.6	Does "all fully equipped and fully integrated racks for the RRH sites (including PFE, radio and COMMS equipment and full applied wiring) statement means all the 5KW Transmitters (qty 2) , HF Receivers (qty 2), UHF Radios (qty 2), Tx Antenna Matrix, Dummy Load, Rx Multi-coupler, AIS, Audio Matrix, DTS, SPC Serial Device Server, Router, Switch as well as the PFE Items or a common system set up by using Exciter of 5KW Tx (qty 1), Receiver (Qty1), UHF (qty 1) with remaining system items including PFE?	NCI Agency confirms that a "fully integrated rack" contains all items to include PFE as installed in the final configuration at the COMMS site.	Closed
<b>T.23</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Figures 8 to 13	1. Please confirm that labels market as POL in figures 8 to 13 are actually be GBR. 2. Please confirm that whether items stated as Power Control in figures 8 to 13 are actually be SMS or part of SMS?	1. Confirming figures 8 to 13 relate to GBR not POL (Blue box to be read as GBR). 2. The power control is a power (multi) socket based unit with IP connection, allowing the individual Power-Down/Power-UP for a connected device. Falls under the responsibility of the Contractor.  Change will be reflected in Amendment 2.	Amd 2

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>T.24</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Annex A, Paragraph 3.3, and Paragraph 4.14	Technical requirements for Site Monitoring System - SMS are described under two paragraphs which 3.3 and 4.14. Please clarify which one will be applicable or prevail to another?	Both chapters are valid as they are complementary to each other.	Closed
<b>T.25</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW – Annex A, Paragraph 3.3	Please evaluated that data transfer should be two direction and SSSB OSCC HLC/LLC shall also convey data to SMS such as alarms related with Radio Receivers, HF and UHF Transmitter parameters in order to have reliable and concurrent system.	<ol style="list-style-type: none"> <li>1. SMS shall interface with the OSCC and SMS has full functionality responsibility.</li> <li>2. The SMS will be responsible to distribute the information also to the other COMMS sites SMSs.</li> <li>3. For the detailed approach of the Contractor, Technical Interchange Meetings shall be performed amongst the THN, NCIA and the Contractor. At the TIM the THN will describe the currently existing/installed site monitoring system.</li> <li>4. Bi-Directional data exchange between the OSCC and the SMS is needed for acknowledgements, etc.</li> </ol>	Closed
<b>T.26</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW – Annex A, Paragraph 4.14.1,	<p>It has been requested that SMS will be provided by the Contractor shall be compatible with any monitoring system already installed by the THN.</p> <p>In above statement;</p> <ol style="list-style-type: none"> <li>1. What will be the required level of compatibility?</li> <li>2. Is there any information about the already installed and planned to be installed monitoring systems?</li> <li>3. Does technical information including ICDs</li> </ol>	After contract award, Technical Interchange Meetings (TIM) shall be performed amongst the THN, NCI Agency and the Contractor. At the TIM, the THN will describe the currently existing/installed site monitoring system and provide documentation as appropriate for Contractor design considerations.	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
		(hardware and software) will be provided to Contractor by the HN?		
<b>T.27</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 3.11, Receiver HF / SSB	<p>Dimensions of the Receivers stated as rack mountable with size (max) defined as 19" x 580 mm x 3U (W x D x H) weight (max) defined as 20 kg.</p> <p>Although, we consider that since the equipment will be installed to the radio stations there are enough space/room to install and there is no limitation or critical situation in terms dimension and weight, if a receivers would be proposed with height of 4U and weight of 24 kg, would it be considered as non-compliancy, while it meets all other requirements with a project life cycle cost advantage or not?</p> <p>We kindly ask NCI to review dimension and weight requirements on the grounds above.</p>	<p>The size and weight requirements are based on the Human Engineering standard MIL-STD-1472G with respect to remove and replace for maintenance actions. If the maximum size and weight requirements are exceeded then Standard or Special Tools will be required to lift and transport the items while still maintaining the MTTR requirements. Therefore, if Contractors propose items that exceed the maximum size and weight requirements for any item, then the solution must also include the necessary Standard or Special Tools to support the necessary maintenance actions while ensuring all MTTR requirements are met.</p> <p>Technical solution must be compliant with Human Engineering Standard, MIL-STD-1472G.</p> <p>Change/addition will be reflected in Amendment 2.</p>	Amd 2
<b>T.28</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 3.6.7,	What is the minimum input (and output) capacity required?	Contractor is responsible for determining the minimum input and output capacity as part of the technical design and solution. This shall be considered for all Audio/Data lines for all SSSB services (VOICE/L11/L22 and all related signals).	Closed

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
	Audio/Data Matrix		Final decision on in/out "channel" capacity is to be recommended by the Contractor.	
<b>T.29</b>		A pre-selector might not improve the system performance. Is a pre-selector needed if the requirements are fulfilled without.	NCI Agency confirms that a pre-selector is required.	Closed
<b>T.30</b>		Can the function of the pre-selector (3.12 HF-RX Pre-Selector) be implemented in the receiver (3.11 SSSB HF Receiver)?	Please see T.29.  In addition: Does not need to be a separate unit. Contractor is responsible for the technical design to satisfy all functional requirements.	Closed
<b>T.31</b>		A pre-selector might not improve the system performance. Is a pre-selector needed if the requirements are fulfilled without.	Duplication of T.29.	Closed
<b>T.32</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Annex A, Paragraph 2.4.10, Design Requirements	What will be the level of support which will be provided by THN and Purchaser (NCIA) during the integration of PFE equipment? Will it be documentation level or on call service or direct engineering support at site and/or Contractor facilities?	THN and NCI Agency support will be provided in the form of documentation, as well as coordinated direct engineering support via remote support and at Contractor premises.	Closed

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>T.33</b>	IFB-CO-15577-SSSB-Book II-Part IV, SOW, Annex A, Paragraph 4.10.1.a.	<p>If the tree needs to be cut,</p> <p>Q1. Will there be a permission?</p> <p>Q2. Will the host country help get these permissions?</p> <p>Q3. Will there be any cost?</p>	None of the planned radio sites have any trees. Further requirements information is also available in IFB-CO-15577-SSSB-Book II-Part IV, SOW CW Annexes.	Closed
<b>T.34</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Annex A, Paragraph 2.2.3, Connectivity	<p>Q1. Will the use of explosives be allowed for the construction foundation in rocky areas?</p> <p>Q2. If permission will be given, will the explosive be supplied by THN?</p> <p>Q3. If it will be provided by the Contractor, will the necessary permits be obtained by THN? (It is a known issue that such permissions are very difficult to obtain)</p>		Open
<b>T.35</b>	IFB-CO-15577-SSSB-Book II-Part IV – SOW, Annex A, Paragraph 4.10.1. e.	In the event that historical artefacts are found during the excavation of the foundation, will the suspension of the work be considered within the scope of force majeure?	Please see A.9.	Closed
<b>T.36</b>	PART IV SOW ANNEX A, ANNEX D, ANNEX G 3.11.ff	HF Receiver rack mountable max size was specified as 19" x 580 mm x 3U (W x D x H). Are receivers with 4U size acceptable?	<p>Please see T.27.</p> <p>Technical solution must be compliant with Human Engineering Standard, MIL-STD-1472G.</p>	Amd 2

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			Change/addition will be reflected in Amendment 2.	
<b>T.37</b>	PART IV SOW ANNEX A, ANNEX D, ANNEX G 3.11.gg	HF receiver's max weight was specified as 20kg. Are receivers up to 25kg acceptable?	Please see T.27.  Technical solution must be compliant with Human Engineering Standard, MIL-STD-1472G.  Change/addition will be reflected in Amendment 2.	Amd 2
<b>T.38</b>	PART IV SOW ANNEX A, ANNEX D, ANNEX G 3.4.4.v	Out of band Noise i, ii, iii, iv: is it possible to specify the related NATO STANAG regarding to those specifications	MIL-STD 188-203 1A.	Closed
<b>T.39</b>	PART IV SOW ANNEX D Figure 12	Zeewolde HF-TX Site schematic shows direct connection between transmitters and antennas. There is also a dummy load in the system. Without using an antenna matrix, it might be very difficult and risky to switch a transmitter between antenna and dummy load using large (1 5/8") coax cables with EIA connectors. It is recommended to add an antenna matrix for that site. Please clarify!	As laid down in SOW Annex D figure 12.  Contractor is responsible for the technical design solution to be reviewed and approved at PDR.	Closed



<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.40</b>	PART IV SOW ANNEX G Figure 17	HF-RX/TX/UHF Kythira site schematic shows RX (via multicoupler) and TX equipment connected to same antenna matrix. Based on that design drawing, there might be an intention to use TX antennas for receive purposes which is not recommended and might not be possible during operation. High power transmissions, although antenna matrix might provide sufficient isolation, because of the small distance between TX antennas would cause overloading of receivers even if they operate at different frequencies. The voltage level at the receiver input might burn the circuits or engage the protection to disable reception. We recommend separate matrices for transmit and receive purposes. Please clarify!	<p>Drawing failure in Figure 17:</p> <ol style="list-style-type: none"> <li>1. The Antenna Matrix is only used for the HF TX Radios.</li> <li>2. The two HF RX Radios are connected to the Multi Coupler and from there to the HF RX Antenna.</li> </ol> <p>Changed drawing will be reflected in Amendment 2.</p>	Amd 2
<b>T.41</b>	PART IV SOW ANNEX G Figure 17	HF-RX/TX/UHF Kythira site schematic shows RX and TX antennas separated few hundreds of meters. Normally, between transmit and receive antennas for high power operation, the separation should be couple of kilometers. The design in the sketch is possible when transmitter operates with the condition that receiver is muted. If both transmit and receive operations are needed in parallel simultaneously, than either transmit or receive antennas should be installed elsewhere to provide the isolation. Otherwise, The voltage level at the receiver input might burn the circuits or engage the protection to disable reception. Please clarify!	At this location there is only one area available, for which the Contractor shall find the best architectural/functional design. Contractor is responsible for the technical design solution to be reviewed and approved at PDR.	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
T.42	SOW Annex C Annex F Annex I	<p>Please provide below information for the civil works.</p> <p>Kartsinoudi Length (m) Width (m) Height (m) Qty.</p> <ol style="list-style-type: none"> <li>1. Total length of the fence to be built</li> <li>2. Dimensions of the existing fuel tanks</li> <li>3. Dimensions of the existing power generator manholes and manhole covers</li> <li>4. Total distance between fuel tanks and power generators</li> <li>5. Dimensions of the existing concrete base of HVAC outdoor unit</li> </ol> <p>7th Air Force Radar Station - Skyros Length (m) Width (m) Height (m) Qty.</p> <ol style="list-style-type: none"> <li>6. Dimensions of the SSSB equipment room</li> <li>7. Distance between site and the Disposal Area Portreath Length (m) Width (m) Height (m) Qty.</li> <li>8. Total length of the fence to be built</li> <li>9. Total length and width of the antenna access roads to be built 3</li> <li>10. Distance between site and the Disposal Area Kythira Length (m) Width (m) Height (m) Qty.</li> <li>11. Total length of the fence to be built</li> <li>12. Total length of the antenna access roads to be built</li> <li>13. Dimensions of the fuel truck parking to be built</li> <li>14. Dimensions of the VAN parking to be built</li> <li>15. Dimensions of the concrete base of power generators</li> <li>16. Distance between site and the Disposal Area Sideros Length (m) Width (m) Height (m) Qty.</li> </ol>		Open

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
		17. Dimensions of the existing fuel tanks 18. Dimensions of the existing power generator manholes and manhole covers 19. Total distance between fuel tanks and power generators 20. Dimensions of the existing concrete base of HVAC outdoor unit 21. Dimensions of the COMMS building 22. Dimensions of the SSSB equipment room 23. Dimensions of the COMMS building front facade 24. Dimensions of the building main entrance door 25. Dimensions of the RF cabling manholes and manhole covers 26. Distance between site and the Disposal Area Fiber Optic - Crete Length (m) Width (m) Height (m) Qty. 27. Total length of the trench to be excavated 0.1 0.5 28. Dimensions of the new manholes and manhole covers 29. Distance between site and the Disposal Area Mavros Length (m) Width (m) Height (m) Qty. 30. Total length of the fence to be built 31. Dimensions of the existing fuel tanks 32. Dimensions of the existing power generator manholes and manhole covers 33. Total distance between fuel tanks and power generators 34. Quantity and dimensions of the RF cabling manholes and manhole covers		

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
		35. Dimensions of the existing concrete base of HVAC outdoor unit 36. Distance between site and the Disposal Area Limnonari Length (m) Width (m) Height (m) Qty. 37. Total length of the fence to be built 38. Dimensions of the existing fuel tanks 39. Dimensions of the existing power generator manholes and manhole covers 40. Total distance between fuel tanks and power generators 41. Dimensions of the RF cabling manholes and manhole covers 42. Dimensions of the existing concrete base of HVAC outdoor unit 43. Dimensions of the COMMS building roof 44. Dimensions of the SSSB equipment room 45. Dimensions of the COMMS building front facade 46. Dimensions of the concrete base of power generators 47. Distance between site and the Disposal Area 48. Dimensions of the COMMS building 49. Dimensions of the SSSB equipment room 50. Dimensions of the COMMS building front facade 51. Dimensions of the building main entrance door 52. Quantity and dimensions of the RF cabling manholes and manhole covers 53. Dimensions of the concrete base of power generators 54. Distance between site and the Disposal Area		

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
		7. Air Force Radar Station - Skyros Length (m) Width (m) Height (m) Qty. 55. Dimensions of the SSSB equipment room 56. Distance between site and the Disposal Area Portreath Length (m) Width (m) Height (m) Qty. 57. Total length of the fence to be built 58. Total length and width of the antenna access roads to be built 3 59. Distance between site and the Disposal Area Benbecula Length (m) Width (m) Height (m) Qty. 60. Total length of the fence to be built 61. Total length and of the antenna access roads to be built 3 62. Distance between site and the Disposal Area Saxa Vord Length (m) Width (m) Height (m) Qty. 63. Total length of the fence to be built 64. Total length and of the antenna access roads to be built 3 65. Distance between site and the Disposal Area Zeewolde Length (m) Width (m) Height (m) Qty. 66. Total length of the fence to be built 67. Distance between site and the Disposal Area Julianadorp Length (m) Width (m) Height (m) Qty. 68. Total length of the fence to be built 69. Distance between site and the Disposal Area		

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>T.43</b>	SOW Annex C Annex F Annex I	Only Kythira and Portreath job sites required a new SSSB building. All the rest are basically a refurbishment of the existing ones. Please clarify.	NCI Agency confirms only Kythira and Portreath require new SSSB building. However, a new block house built within the existing building at RRH Saxa Vord is also required.	Closed
<b>T.44</b>	SOW Annex C Annex F Annex I	Do we have to submit a detailed building design of each job site at the tendering stage? Please clarify.	<p>The detailed building design is not required at the bidding stage. The requirements for CW related design documentation at the bidding phase are stipulated in IFB-CO-15577-SSSB, BOOK I - INSTRUCTIONS TO BIDDERS, section 3.5.9. Civil Works. This section lists numerous requirements formulated as presented in cited below examples:</p> <p>3.5.9.2. The Bidder shall submit preliminary analysis, documents and drawings...</p> <p>3.5.9.3. The Bidder shall submit for each radio site, preliminary and schematic...</p> <p>3.5.9.3.2. Application – general description where and why major material and equipment are used / proposed for installation, construction, demolishing and dismantling works...</p> <p>3.5.9.3.4. Identification and general description of method of implementation for key works...</p> <p>3.5.9.4.4. General description of building systems ...with supporting schematic and conceptual drawings.</p> <p>3.5.9.5.5. Key dimensions of main infrastructure (for example roads and parking lots, antenna fields)</p>	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
T.45	SOW Annex C Annex F Annex I	Sound insulation of the block house only required in Saxa Vord. Please clarify.	<p>UK - Visual checks will be performed to ensure that fire stopping products have been installed and that correct labels affixed near to any penetration. Further information from UK SME's will be available once received.</p> <p>GRC - No additional acoustic sound insulation required</p> <p>NLD - No additional acoustic sound insulation required</p> <p>NCIA Team Comment - There are numerous requirements related to sound insulation and noise level limits at various sites for different structures and equipment. It is not a requirement related only to Saxa Vord. It is particularly important at the sites where the Contractor is responsible for provision of completely new buildings. Please see below some examples of the SOW requirements: SOW Annex I – GRC Radio Sites 26.15.1. n. The PGS shall be installed in a sound attenuated, weatherproof, rust resistant hard-wall enclosure. o. The sound insulation shall be non-hydroscopic. 24.1.1. The HVAC system shall include at the minimum the following main elements: d. Acoustic noise dampers in air ducting system 24.4.1. The noise level generated on site when all equipment, that includes electronic equipment, transmitters, HVAC, power generators, UPS etc. are operating simultaneously shall not exceed Noise Rating NR55 (defined by ISO 1996) measured 10</p>	Closed

TECHNICAL				
Serial NR	IFB REF	QUESTION	ANSWER	Status
			<p>m distant from the perimeter fence.</p> <p>24.4.2. If one duct or one duct system includes air inlet or air outlet grills for ventilation or air conditioning of different rooms, the noise produced in any of these rooms and transmitted through these ducts to any other of these rooms shall have from room to room an attenuation minimum in dB at least equal to the attenuation guaranteed by the partition separating these rooms.</p> <p>24.4.3. It is the Contractor's responsibility to determine and foresee, in function of the materials used, all precautions/method/measures to guaranty that the specifications in this SOW are met. Some measures can be amongst others, acoustic baffles, acoustic insulation materials in some ducts, mechanic and elastic suspension of some equipment groups etc.</p> <p>24.4.4. The Noise Rating level shall not exceed following values:</p> <ul style="list-style-type: none"> <li>a. Supply Storage Room/Workshop and Test facilities for electronic equipment – NR60</li> <li>b. SSSB Equipment room (if no HVAC inside– NR50)</li> <li>c. Corridor and vestibule– NR45</li> <li>d. Power Generator room – NR75</li> <li>e. Main Power switchgear room – NR70</li> <li>f. UPS/Battery room – NR70</li> <li>g. Environment Control room (HVAC) – NR75</li> </ul>	



<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.46</b>		Hoarding around the job site mentioned at UK Sites in the documents. Is there any similar requirements at NL & GRE job sites? Please clarify.	The requirement for fencing, signs and marking at the construction sites is valid at each location in each nation. It shall be provided, installed and maintained by the Contractor in compliance with respective THN regulations in force. An example of such requirement for THN GRC is stipulated in SOW Annex I, SECTION 21.	Closed
<b>T.47</b>	IFB-CO-15577-SSSB - Book II - Part IV, Annex A, Par. 3.12.1 - bullet d. IFB-CO-15577-SSSB - Book II - Part IV, Annex G, Par. 3.12.1 - bullet d.	The requirement referred to is "d. Gain: 0 ±3 dB". Receiving HF pre-selectors typically have a gain of -6dB ± 2dB. Can you please clarify if a Gain of -6dB ±2dB is acceptable?		Open
<b>T.48</b>	Bidders Library - Site Information Data Packages for UK, Netherlands and Greece	Most of the drawings and diagrams included in the Data Packages are in low resolution and cannot be properly read. Please provide the same documents in a better quality and higher resolution.	NCI Agency did not identify low resolution drawings and/or diagrams. Please refer to the Bidders Library for original documents in higher resolution.	Closed

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.49</b>	IFB-CO-15577-SSSB - Book I - Part I , Sec 1.5 and Sec. 1.6	In order to share with local companies in UK, Netherlands and Greece the Restricted information present in the Bidders Library documents and mandatory for the evaluation of the local civil works, we understand that the previous approval of NCIA is needed. Furthermore the acquisition of the proper clearance by local companies can be a long process that could significantly delay project. We therefore ask NCIA to provide a list of local civil companies in each Country having already the necessary clearance to work in NATO sites and the NCIA approval to receive through the proper channels and procedures such Restricted documents	Please see A.10	Closed
<b>T.50</b>	IFB-CO-15577-SSSB - Book II - Part IV SOW, Annex G, Sec.4.14	For Greece is stated that "the Contractor shall integrate nine (9) DLOS Inter-site connections". We understand that existing DLOS equipment shall not be replaced and that only the procurement and the deployment of new cabling and antennas is in the Contractor scope. Please provide details of the existing equipment and explain the responsibilities of Contractor in relation to the all DLOS connections. Furthermore please indicate the requirements that the Contract shall consider for the selection of proper cabling and antennas.		Open

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.51</b>	IFB-CO-15577-SSSB - Book I - Annex A - Bidding Sheets - CLIN 2 and CLIN 6	We understand that all civil works at sites (CLIN 8) shall be completed before W111 and that systems installation and integration in all sites shall be started after CLIN 8 completion and shall be completed before W144. May these two activities be overlapped?	Where it makes sense and in concertation with NCI Agency and THN, Contractor may overlap civil works and system installation and integration provided the Contractor adheres to local laws, regulations and contractual testing requirements. Contractor shall be encouraged to recommend an overlap if that optimises the costs or efforts or schedule.	Closed
<b>T.52</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 2.14.1 , point f. - Annex D - Par. 2.14.1 , point g. - Annex G - Par. 2.14.1 , point j.	Contractor is responsible for Delivery of racks for inter-site/intra-site communication equipped with power distribution and accessories including racks for NDN equipment. Please provide mechanical and electrical details of any equipment to be installed in these racks	Contractor is responsible for the technical design solution to be reviewed and approved at PDR.	Closed
<b>T.53</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 2.14.1 , point g. - Annex D - Par. 2.14.1 , point h. - Annex G - Par. 2.17.1 , point k.	Please provide an estimation of the labor man/days to be considered by Contractor for the support to THN and NCIA to integrate and test the inter-site communications in each Country.	Intersite communication test (per SSSB Buffer Centre) will, as a minimum, last: 1. Preparation: 1 week 2. Site Acceptance Test: 1 week 3. Contractor engineering manning at the COMMS Sites during activities: - To be calculated by the Contractor.  Change/addition will be reflected in Amendment 2.	Amd 2

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
<b>T.54</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 3.4.3 - Annex D - Par. 3.4.3 - Annex G - Par. 3.4.3	Please confirm that other types of cooling systems are accepted (e.g.: liquid)	Please refer to Clarification Question T1 above.	Closed
<b>T.55</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 4.3 Annex D - Par. 4.3 Annex G - Par. 4.3 Site Information Data Packages (UK, Greece, Netherlands)	Please provide missing details on available power allocated to SSSB full systems for NB and SB PSS in each site. Please provide missing details on the power available in each site for the Contractor activities during site works.		Open
<b>T.56</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 3.13, Site Block Diagrams Annex D - Par. 3.12, Site Block	The HF RX Multi-couplers for all three nations are specified with two outputs only. Comparing this specification with the signal block diagrams, this appears to be correct just for the UK sites. In Greece there are sites having three receivers connected to the multi-couplers and in the Netherlands there is	The input/output of the Multi Couplers shall be in relation to the number of radios and antennas, as listed in the respective THNs figures (block diagrams). The Contractor shall calculate the correct number of Multi Coupler I/O lines.  Change/addition will be reflected in Amendment 2.	Amd 2

<b>TECHNICAL</b>				
<b>Serial NR</b>	<b>IFB REF</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
	Diagrams Annex G - Par. 3.13, Site Block Diagrams	one site having even four receivers fed by the multi-coupler. Please clarify.		
<b>T.57</b>	IFB-CO-15577-SSSB - Book II - Part IV SOW, Annex G, Sec.4.14	For Greece is stated that "the integration of eighteen (18) DLOS systems shall be performed as a 1+1 hot standby configured system.". We understand that existing DLOS equipment shall not be replaced and that only the procurement and the deployment of new cabling and antennas is in the Contractor scope. Please provide details of the existing equipment and explain the responsibilities of Contractor in relation to the all DLOS connections. Furthermore please indicate the requirements that the Contract shall consider for the selection of proper cabling and antennas.		Open
<b>T.58</b>	IFB-CO-15577-SSSB - Book II - Part IV SOW, Annex I, Appendix 1, Sec.2.23 Appendix 3, Sec.2.22 Appendix 4, Sec.2.2	Contractor scope includes the " provision and installation of required number of .. new DLOS tower with all associated works" in four Greek sites. Please specify if the height of these towers shall be indicated by the Purchaser or by Contractor. If equipment other than SSSB DLOS shall be mounted on this towers please provide all necessary details in order to perform the proper calculations	<p>The height of each DLOS tower, which is to be provided by the Contractor, shall be identified / designed by the Contractor to assure DLOS functionality as specified in the SOW and respective Annexes.</p> <p>Contractor is responsible for the technical design solution to be reviewed and approved at PDR.</p>	Closed

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
	Appendix 5, Sec.2.22			
<b>T.59</b>	Site Information Data Packages (UK, Greece, Netherlands)	HF Radio Sites with co-located Transmitter and Receiver antennas, Benbecula in UK and Kythira in Greece. In these sites, the distance between the TX and the RX antennas is very short. Normally, a distance of several kilometres is recommended between HF TX and RX antennas. Assuming a distance of 500m between the antennas and each antenna having 5dBi of gain, a coupling of around 25dB can be expected. This corresponds to about 16W at the receiver input. The receiver associated to the same channel of the transmitter would even not be protected by the pre-selector filter. Also the second receiver operating on a different channel might suffer some interference. Please clarify.	Please see T.41.  Contractor is responsible for the technical design solution to be reviewed and approved at the PDR.	Closed
<b>T.60</b>	IFB-CO-15577- SSSB - Book II - Part IV - Annex A - Par. 3.17, 3.18 Annex D - Par. 3.17, 3.18	Selection of Multiplexers, Routers and Switches "shall be performed in close coordination with the Purchaser and the THN. The final decision on the selected multiplexer type is with the Purchaser". Please anticipate preferred brands and models in order to make a technical and cost assessment for the bid.	Contractor is responsible to propose the required equipment in accordance with the specifications. Purchaser will validate the equipment meets the specifications at the PDR.	Closed

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
	Annex G - Par. 3.17, 3.18			
<b>T.61</b>	IFB-CO-15577-SSSB - Book II - Part IV - Annex A - Par. 2.11 Annex D - Par. 2.2 Annex G - Par. 2.14	The inter-site link between the HF TX and HF RX sites employs Contractor furnished multiplexers. Among others, these multiplexers transport the L11 signals from the HF Receivers to the L11 DTS at the TX sites. This link is rather sensitive to time delay. For example: In the architecture for the link between Limnonari and Kartsinouidi in Greece there are three DLOS hops and two IP routers. The multiplexers are based on PCM technology; this means that the PCM signal will be transported over IP, which introduces arbitrary delays and synchronisation problems on the multiplexers. In the Netherlands these links are established via NDN. Considering that all these delays and synchronisation issues are beyond the control of the Contractor, please confirm that delay and synchronization for inter-sites and intra-sites link are under the responsibility of THN and Purchaser.	Contractor is responsible for the technical design solution to be reviewed and approved at the PDR. The technical design shall address the delays and synchronisation challenges and provide recommendations / requirements for the THN NDNs.	Closed
<b>T.62</b>	Par. 3.12 IFB-CO- 15577-S • B-LJI<_-GR-NL, Book II, Part IV SOW,	As documented in section 3.12, the rack mountable HF-RX multi- coupler allows the use of one HF antenna with two (2) HF receivers. As we have seen in the Limnonari, Sideros and Noordwijk sites (SSSB-UK-GR-NLD Bidders Conference - Presentations Day I), the multi-coupler is connected		Open

<b>TECHNICAL</b>				
<b>Serial</b>	<b>IFB</b>	<b>QUESTION</b>	<b>ANSWER</b>	<b>Status</b>
<b>NR</b>	<b>REF</b>			
	ANNEX D (SRS)	to more than two EF receivers. In order to avoid a higher insertion loss, we suggest the installation of an active 4:1 multi-coupler.		
<b>T.63</b>	Par. 19.2.3 IFB-CO- 15577-SSSB-UK-GR-NL, Book II, Part IV SOW, ANNEX I (GRC RADIO SITES)	Based upon the aforementioned paragraph (point a) for what it concerns the life cycle of the buildings (50 yeas), we request whether the usage of a shelter or similar alternative is considered acceptable instead of the creation of a new building.		Open
<b>T.64</b>	Par. 23.1.11 IFB-CO-15577-SSSB-UK-GR-NL, Book II, Part IV SOW, ANNEX I (GRC RADIO SITES)	In the paragraph mentioned before, the mast, antennas, foundation and ancillaries should have a life cycle of at least 30 years without substantial maintenance. Can you please specify what do you mean by substantial maintenance?		Open



**ANNEX B**

**Distribution List for IFB-CO-15577-SSSB-Amendment 1**

**NATO Delegations (Attn: Investment Committee Adviser):**

Albania	1
Belgium	1
Bulgaria	1
Canada	1
Croatia	1
Czech Republic	1
Denmark	1
Estonia	1
France	1
Germany	1
Greece	1
Hungary	1
Iceland	1
Italy	1
Latvia	1
Lithuania	1
Luxembourg	1
The Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
United Kingdom	1
United States	1

Annex B: Distribution List for IFB-CO-15577-SSSB-Amendment 1

**Belgian Ministry of Economic Affairs** 1

**Embassies in Brussels (Attn: Commercial Attaché):**

Albania	1
Belgium	1
Bulgaria	1
Canada	1
Croatia	1
Czech Republic	1
Denmark	1
Estonia	1
France	1
Germany	1
Greece	1
Hungary	1
Iceland	1
Italy	1
Latvia	1
Lithuania	1
Luxembourg	1
The Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
United Kingdom	1
United States	1

Annex B: Distribution List for IFB-CO-15577-SSSB-Amendment 1

**NATO HQ**

NATO Office of Resources Capability Implementation Branch – Attn: Deputy Branch Chief	1
Director, NATO HQ Communications and Information Staff, Attn: Executive Co-Ordinator	1
SACTREPEUR, Attn: Infrastructure Assistant	1

**Strategic Commands**

HQ SACT     Attn: R&D Contracting Office	1
ACO         Attn: SPT CIS Director	1

**ANNEX C****Final Bidders List for IFB-CO-15577-SSSB**

<b>Item No.</b>	<b>Prospective Bidder</b>	<b>Nominated By</b>
1	CISCO SYSTEMS BELGIUM	Belgium
2	ELEKTRICITEITSWERKEN NUYTS	Belgium
3	FORTINET	Belgium
4	HEWLETT PACKARD ENTERPRISE BELGIUM	Belgium
5	IBM BELGIUM	Belgium
6	SECURITAS	Belgium
7	ELECTRON PROGRESS EAD	Bulgaria
8	KONTRAX AD	Bulgaria
9	ROCK NETWORKS INC	Canada
10	CS GROUP	France
11	NEXEYA France	France
12	Thales SIX GTS France SAS	France
13	CESTRON INTERNATIONAL GMBH	Germany
14	ESG ELEKTRONIKSYSTEM UND LOGISTIK GMBH	Germany
15	HAGENUK MARINEKOMMUNIKATION GMBH	Germany
16	IBM DEUTSCHLAND GMBH	Germany
17	INFODAS GMBH	Germany
18	ROHDE & SCHWARZ GMBH & CO KG	Germany
19	INTRACOM DEFENSE SINGLE MEMBER SA	Greece
20	INTRACOM TELECOM SA	Greece
21	SCYTALYS SA	Greece
22	SPACE HELLAS SA	Greece
23	SSA SA	Greece
24	THALES HELLAS	Greece
25	ALMAVIVA S.p.A.	Italy
26	GENERAL DYNAMICS MISSION SYSTEMS ITALY S.R.L.	Italy
27	IES S.R.L.	Italy
28	LEONARDO S.p.A.	Italy
29	SIMETEL S.p.A.	Italy
30	ROHDE & SCHWARZ BENELUX BV	Netherlands
31	INDRA SISTEMAS S.A.	Spain

## Annex C: Final Bidders List for IFB-CO-15577-SSSB

<b>Item No.</b>	<b>Prospective Bidder</b>	<b>Nominated By</b>
32	ANTENSAN ELEKTRONIK SAN. IC VE DIS TIC. AS	Turkey
33	ASELSAN ELEKTRONIK SANAYI VE TICARET ANONIM SIRKETI	Turkey
34	CTECH BILISIM TEKNOLOJILERi SAN. VE TIC.A.S.	Turkey
35	E4E ELEKTRONIK MUHENDISLIK YAZILIM TASARIM LTD.STI.	Turkey
36	ESEN SISTEM ENTEG.VE MUH.HIZ.SAN.VE TIC.LTD.STI.	Turkey
37	MILSOFT YAZILIM TEKNOLOJILERI ANONIM SIRKETI	Turkey
38	ONUR MUH.A.S.	Turkey
39	PAGETEL SISTEM MUHENDISLIGI SAN.TIC.LTD. SIRKETI	Turkey
40	PROFEN SAVUNMA VE GUVENLIK TEKNOLOJILERi SANAYI VE TICARET ANONIM SIRKETI	Turkey
41	SAVRONIK ELEKTRONIK SAN. VE TIC. ANONIM SIRKETI	Turkey
42	TUBITAK BILGEM TURKIYE BILIMSEL VE TEKNOLOJIK ARASTIRMA KURUMU BASKANLIGI	Turkey
43	ADVANTECH WIRELESS TECHNOLOGIES LTD	UK
44	AIRBUS DEFENCE AND SPACE	UK
45	BABCOCK INTEGRATED TECHNOLOGY LTD	UK
46	JACOBS	UK
47	KBR	UK
48	LEONARDO	UK
49	ROCKWELL COLLINS UK LTD	UK
50	THALES IAS	UK
51	IERUS TECHNOLOGIES INC.	USA
52	NEW HORIZONS TELECOM INC.	USA