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NCIA/ACQ/2016/956
21 March 2016

To: Prospective Bidders
From: The General Manager, NATO Communications and Information Agency (NCI Agency)

Subject: **AMENDMENT NO. 5 TO THE INVITATION FOR BID (IFB) NO. IFB-CO-13733-BRASS-BGR**
PURCHASER ANSWERS TO CLARIFICATION REQUESTS

'Provide Broadcast, Maritime Rear Link And Ship-Shore Baseline Implementation South in Bulgaria (BRASS-BGR)'

References:
A. AC/4-2261 (1996 Edition)
B. AC/4(PP)D/26580-ADD1, AC/4-DS(2012)0028
C. AC/4(PP)D/26580-ADD2, AC/4-DS(2013)0022
D. AC/4(PP)D/26580-ADD3, AC/4-DS(2015)0012
E. NCIA/ACQ/ASG/2015/832, dated 20 February 2015
F. NCIA/ACQ/ASG/2015/1607, dated 29 October 2015
G. NCIA/ACQ/ASG/2015/1766, dated 1 December 2015
H. NCIA/ACQ/ASG/2015/1843, dated 4 January 2016
I. NCIA/ACQ/ASG/2016/845, dated 9 February 2016
J. NCIA/ACQ/ASG/2016/875, dated 25 February 2016

Prospective Bidders:

1. At Reference (F) your firm was invited to participate in an International Competitive Bid for the provision of Broadcast, Maritime Rear Link (MRL) And Ship-Shore Baseline Implementation South in Bulgaria.

2. At Reference (G) the NCI Agency issued, through Amendment No. 1 to the IFB, the slides presented during the Bidders Conference held in Varna (Bulgaria) on 26 November 2015.

3. At Reference (H) the NCI Agency issued, through Amendment No. 2 to the IFB, the answers to the Clarification Requests (CRs) received from Prospective Bidders (CRs A1-A4, T1-T88), and amended the subject IFB accordingly.

4. At Reference (I) the NCI Agency issued, through Amendment No. 3 to the IFB, the answers to the CRs received from Prospective Bidders (CRs A5-A6, T89-T182), and amended the subject IFB accordingly.

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Agence OTAN d'information et de communication
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5. At Reference (J) the NCI Agency issued, through Amendment No. 4 to the IFB, the answers to the CRs received from Prospective Bidders (CRs T183-T226), and amended the subject IFB accordingly.

6. The purpose of this Amendment No. 5 to the IFB is to publish the answers to the CRs received from Prospective Bidders (Attachment (B), CRs T227-T235). These answers do not require revisions to IFB, therefore all IFB documents remain unchanged from their last issued version (Reference (J)).

7. **THE BID CLOSING DATE IS HEREWITH EXTENDED BY ELEVEN (11) CALENDAR DAYS AND IS NOW: 15:00 HOURS (BRUSSELS TIME) ON 4 APRIL 2016**.

8. Bidders are reminded to treat classified material under subject IFB in accordance with the applicable Security regulations. When received by the Bidders, such classified material shall be under their responsibility and Bidders shall be responsible, in accordance with NATO and National Security regulations, for the proper handling, storage and control of this classified material, including any transmission to partners and sub-contractors. **Bidders are cautioned that any classified material cannot be transmitted through electronic transmission over the Internet nor published on the Internet**.

9. For Prospective Bidders which have not yet done so, you are kindly reminded to complete and return the **Acknowledgement of Receipt** form at Reference (F), informing the NCI Agency of your intention to bid/not to bid.

10. The NCI Agency sole Point of Contact (POC) for all information concerning this IFB is:

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NCI Agency
Acquisition/Contracting
Avenue du Bourget 140
B-1110 Brussels, Belgium

FOR THE GENERAL MANAGER:

E.T. Herway
Chief of Contracts

Attachments:

(A) Distribution List
(B) Purchaser answers to the Clarification Requests (fourth release)

Attachment A
Distribution List for
IFB-CO-13733-BRASS-BGR-AMD5

NOMINATED BIDDERS	1 Each
NATO Delegations (Attn: Investment Adviser):	
Belgium	1
Bulgaria	1
Canada	1
Czech Republic	1
Denmark	1
Estonia	1
Germany	1
Greece	1
Hungary	1
Iceland	1
Italy	1
Latvia	1
Lithuania	1
Luxembourg	1
Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
The United Kingdom	1
The United States	1
Belgian Ministry of Economic Affairs	1
Embassies in Brussels (Attn: Commercial Attaché):	
Bulgaria	1
Canada	1
Czech Republic	1
Denmark	1
Estonia	1
Germany	1
Greece	1
Hungary	1
Iceland	1
Italy	1
Latvia	1

Lithuania	1
Luxembourg	1
Netherlands	1
Norway	1
Poland	1
Portugal	1
Romania	1
Slovakia	1
Slovenia	1
Spain	1
Turkey	1
The United Kingdom	1
The United States	1

Distribution for Information (Blind to Bidders):

NATO HQ

NATO Office of Resources
Management and Implementation Branch – Attn: Deputy Branch Chief 1

Director, NATO HQ C3 Staff
Attn: Executive Co-ordinator 1

SACTREPEUR
Attn: Investment Assistant 1

SACEUREP
Attn: Investment Assistant 1

Strategic Commands
HQ SACT Attn: ACOS C4ISR 1
ACO AGSIO Attn: SPT CIS Director 1

NCI Agency - Internal Distribution

DACQ – Mr Peter Scaruppe (via Ms D. Cani) 1
CAB Secretary – Ms M.L. Le Bourlot 1
ACQ Chief of Contracts – Mr L.T. Herway 1
ACQ Principal Contracting Officer – Ms T. Pezzi 1
ACQ Senior Contracting Assistant – Ms V. Navikaitė 1
ACQ ILS – Mr C. Lucas 1
SStrat NLO – Mr C. Ulsh (via Mr E. Pecorella, Mr D. Harman) 1
Legal Adviser – Ms S. Rocchi (through Mr V. Roobaert) 1
FMU – Ms I. Nechelput 1
Service Strategy – Mr M. Davidson 1
DM – Mr E. Lesbaupin 1
NSII SL Chief – Mr T. Plachecki 1
NSII SL WMSA – Mr D. Kallgren 1
NSII SL Project Manager – Mr B. Ayvat 1

Registry 1

NCI Agency - NATEXs
All NATEXs (except Albania, Croatia, France) 1 Each

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
A.1	Book I Par. 2.15.2, 4.2.3 and 4.3.1a, Bidders' Conference Presentation related to Contractual matters	Could you please clarify the "conditioned" offers with an example?	Conditioning the Delivery Dates set by Prospective Contract SSS, imposing particular conditions to the pricing listed in the Bidding Sheets, Supplemental Agreements inconsistent with the terms of the Prospective Contract.	No
A.2	Book I Annex B-13	Can an entity (firm, company, professional expert etc) for the present IFB, to participate as a subcontractor with more than one bidders?	Yes, one entity may be identified as a subcontractor by multiple Prime Bidders.	No
A.3	SOW Annex-C	What if it results that the height of a DLOS mast is too low?	Engineering Changes after Contract Award will be dealt in accordance with the stipulations of the Contract General/Special Conditions.	No
A.4	Appendix 1 to Book II Part IV Annex-A	In the referred document is reported: "2.5. The design, production and installation of the antenna masts shall comply with following standards:	1. It is the Contractor's responsibility to verify and demonstrate, to the satisfaction of the Purchaser, that structures,	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
	Section 2	2.5.1. EN ISO 1461 –. Hot dip galvanized coatings on fabricated iron and steel articles; 2.5.2. EN 10204 Metallic materials. Types of inspection documents 2.5.3. EN 10025 – Hot rolled products of structural steels. General technical delivery conditions; 2.5.4. EN ISO 14 713 (Part 1, 2 and 3) – Zinc coatings -- Guidelines and recommendations for the protection against corrosion of iron and steel in structures; 2.5.5. EN 10210-1 – Hot finished structural hollow sections of non-alloy and fine grain steels; 2.5.6. ISO 898 (part 1, 2 and 5) – Mechanical properties of fasteners made of carbon steel and alloy steel; 2.5.7. ISO 5817 – Welding -- Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) -- Quality levels for imperfections; 2.5.8. ISO 6520-1 – Welding and allied processes -- Classification of geometric imperfections in metallic materials -- Part 1: Fusion welding-“ Taking in consideration that most of the antenna manufacturing are USA companies and most of the	equipment and/or systems can be designed, built and installed on the territory of HN even though they are designed, built and/or installed according to US and/or CANADA standards. 2. If requirement 1. is met in accordance with HN local respective laws and regulations, USA and Canada standards could be accepted as a valid alternative to the EU Standards on the condition that: - USA and Canada standards stipulate requirements equivalent to or exceeding requirements stipulated in the EU standards. Verification and demonstration of this condition, to the satisfaction of the	

<table>
<tr><th>Serial NR</th><th>IFB REF</th><th>BIDDERS QUESTION</th><th>NCI AGENCY ANSWER</th><th>STATUS*</th></tr>
<tr><td></td><td></td><td>primary products available in the market are compliant with the American and Canadian Standards , already and widely used in the NATO existing system, considering also that, despite all the efforts spent we have not been able to find a formal cross reference among the American and European standards, considering, finally, that the available literatures reports that the two standards American and European, in principle are fully compatible unless a few slight differences,

Question:

With respect to the following comparison table we ask, if the USA and Canada standards as mentioned in the table could be accepted as an valid alternative to the EU Standards?
<table>
<tr><th>REF</th><th>DESCRIPTION</th><th>EU STDS</th><th>USA SDTS</th></tr>
<tr><td>2.5.1</td><td>Hot dip galvanized coatings on fabricated iron and steel articles;</td><td>EN ISO 1461</td><td>ASTM A 123</td></tr>
<tr><td>2.5.2</td><td>Metallic materials. Types of</td><td>EN 10204</td><td>ASTM A36 or CSA G40.21</td></tr>
</table>
</td><td>Purchaser, is sole responsibility of the Contractor;

- All contractual requirements stipulated in the SOW are met although USA and CANADA standards are applied.

3. NOTE: Please pay attention to BOOK II PART III (GEN.PROV.), paragraph 6 AUTHORISATION TO PERFORM/CONFORMANCE TO NATIONAL LAWS AND REGULATIONS, particularly sub-paragraph 6.2.</td><td></td></tr>
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Serial NR	IFB REF	BIDDERS QUESTION				NCI AGENCY ANSWER	STATUS*
			inspection documents				
		2.5.3	Hot rolled products of structural steels. General technical delivery conditions;	EN 10025	ASTM A36 or CSA G40.21		
		2.5.4	Zinc coatings -- Guidelines and recommendations for the protection against corrosion of iron and steel in structures;	EN ISO 14 713	ASTM A 123		
		2.5.5	Hot finished structural hollow sections of non-alloy and fine grain steels;	EN 10210 -1	Hot dipped galvanize per ASTM A 123		
		2.5.6	Mechanical properties of fasteners made of	ISO 898	ASTM A325, ASTM A307		

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
		carbon steel and alloy steel; | | | 2.5.7 | Welding -- Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) -- Quality levels for imperfections; | ISO 5817 | CSA W59-Steel, CSA W59.2 Aluminum 2.5.8 | Welding and allied processes -- Classification of geometric imperfections in metallic materials -- Part 1: Fusion welding | 2.2.8 ISO 6520-1 | CSA W59-Steel, CSA W59.2 Aluminum		
A.5	Book I Bidding Instructions 1.3.2	According to Book I Item 1.3.2 the Final System Acceptance should be completed in 16 months. However, the Schedule of Major Performance Milestones in various	This is the calculation method behind the project implementation duration:	Yes, IFB AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
	BOOK II PART I SECTION 2 - SSS	documents such as SSS requires 64 weeks which is approximately 5 weeks less than 6 months! Please clarify!	1 month = 4 weeks 16 months = 16x4=64 weeks However, for the avoidance of confusion, Book-I paragraph 1.3.2 will be modified as to read: The Contractor shall achieve Final System Acceptance within sixty four (64) weeks after the Effective Date of Contract (EDC).	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
A.6	AMD2- SSS BOOK II PART I SECTION 2 CSP 10.10 Payment schedule	The way the payments were planned in the project, the cash flow was not sufficient to run the project, which requires additional financing, and related costs to be added on top of the price of the bids. A typical finance plan for a Contractor is estimated as follows; EDC + 6w: 20% which is the advance payment of all hardware and software deliverables to the suppliers. EDC + 12w: 5% Site surveys, engineering, project management works, EDC + 44w: 50% after successful FAT, <u>all manufacturers and suppliers are paid in full</u> at this stage, in addition to that the project management, engineering teams costs adds up from the start of the project and site infrastructure costs (where it should be partially completed), EDC + 64w: 25% site installations, trainings, tests, documentation everything should be completed. The Purchaser and HN are kindly requested to consider a revised payment plan, which eliminates the additional finance cost of the project and in result, a lower price offer can be submitted by the Bidders!	The proposed payment plan is not acceptable. 40% prior to delivery and installation is reasonable, also taking into account that there is only 12 weeks difference between FAT and SAT. Payment plan as included in IFB takes into account implementation risks, furthermore, the Bidders shall demonstrate in their price proposal that the corporation has sufficient financial resources to undertake the project and perform the contract or the ability to obtain them..	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.1	SOW Annex-C	Where will the main power supply be located in the ACMS?	The MPDB will be located in room 021.1 (see new drawing File: IFB AMD1_Figure-2 of Appendix 1 to SOW Annex-C)	Yes - IFB AMD2
T.2	SOW Annex-C	Can the Contractor use the current mast for DLOS antenna in ACMS and other sites?	No	No
T.3	SOW paragraph 3.4 and 3.5	Is it Contractor responsibility to make the wall penetrations for the cable to the DLOS antenna?	It is HN civil works contractor's responsibility Please see SOW paragraph 3.4.4.hh. DLOS radios shall be installed by the Contractor at the adjacent room unless self-contained DLOS radios are installed on the antenna mast.	No
T.4	SOW Annex-C	Is there line of sight between the three sites?	Yes, there is line of sight between the three sites with proper masts.	No
T.5	SOW Annex-C	Will the outdoor fuel storage tanks be removed in the ACMS?	Yes, they will be removed.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.6	SOW Annex-C	If it requires, can HN provide to use a second room for BRASS equipment?	Yes, only for the black equipment.	No
T.7	SOW Annex-C	What is the dimension of the area for BRASS system in the Tx? There is a minor mismatch in the drawings in Annex C. The drawing says that there are 6 windows, but in reality there are 7.	The revised set of drawings will be released in the updated version of SOW Annex C (File: IFB AMD1_Figure 4 of Appendix 1 to SOW Annex-C). Please disregard the number of the Windows at Figure 6 of Appendix-1 to SOW Annex-C.	Yes, IFB AMD2
T.8	SOW Annex-C	What is the border of antenna field and Military area? There are just 2 drawings and one google picture which do not provide many details. Is there sufficient space? Please provide scaled drawings for antenna fields of Tx and Rx sites	The revised set of drawings will be released in the updated version of Annex C. Please see Revised Figure-3 (Tx site Antenna Field) and Figure 7 (Rx site Antenna Field) of Appendix-1 to SOW Annex-C.	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.9	SOW Annex-C	What is the height of the existing national HF radio antennas mast in Tx and Rx sites?	The height of the existing national HF radio antennas mast : - in Tx site – 40 m - in Rx site – 20 m	No
T.10	SOW Annex-C	Will old national DLOS antennas mast be removed from the transmitter site?	No, it will not be removed. An additional DLOS antenna mast shall be installed by the Contractor	No
T.11	SOW Annex-C	Will the dimensions of the room stay the same in ACMS?	No, a raised floor will be installed 40 cm above the concrete floor. It will be done for BRASS and Crypto rooms.	No
T.12	SOW Annex-C	Will there be an equipment storage for all sites? If so, what are the dimensions for storage rooms for ACMS, Tx and Rx sites	The storage will be provided to the equipment such as large volume antenna mast, there will be no storage available. ACMS site. There are two possible storage facilities: The first one is situated 2 km from the ACMS site. It is a vehicle	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			cage with dimensions: height – 4m., width – 4m., and length – 18.7m. The entering check-point is 4.4 meters wide and 4.2 meters high. The second one is a room in ACMS site building. It's dimensions are: height – 2.8m., width –3 m. and length – 4.m. The front door is 1 m in width and 2 m in height. Tx site. There are two possible storage facilities: The first one is a room situated in TX site building. Its dimensions are: height – 3m, width – 6.2m and length – 13.2m. The front door is 1.6m in width and 2.2m in height.	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			The second one is an old mess-room situated 5-6 km from the transmitting site. Its dimensions are: height – 3.5m, width – 7.2m, and length – 23.2m. The front door is 1.6m in width and 2.2m in height. There are two stairs in front of the front door. Rx site. There is one possible storage facilities: It is an old mess-room situated 2 km from the receiving site. It's dimensions are: height – 3.5m, width – 7.2m and length – 23.2m. The front door is 1.6m in width and 2.2m in height. There are two stairs in front of the front door.	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			On all of the three sites it is possible large-scale spare parts to be stored outdoor. Each site is a military armed zone.	
T.13	SOW Annex-C	Is a fibre connection possible between the sites?	No, it is not possible.	No
T.14	SOW Annex-C	Will Elevated concrete floor in the Crypto room in ACMS site be removed?	Yes, it will be removed.	No
T.15	SOW Annex-C	Has the connectivity of three sites been tested?	Yes it was tested.	No
T.16	SOW Annex-C	Will National Crypto be used for this project?	No, only NATO Crypto will be used for BRASS BGR project.	No
T.17	SOW Annex-C	Is it possible to add places where antennas will not be removed into the drawings?	Please see Revised Figure-3 and Figure 7 of Appendix-1 to SOW Annex-C.	Yes IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.18	SOW Annex-C	Will HN prepare access roads to Antennas in Rx and Tx sites? Such as 30 tones capacity cranes can ride to the rotatable antennas	Yes, it is HN's responsibility. Please see SOW paragraph 3.4.4.x.	No
T.19	Book II Part I Section 1 CLIN 5.1.11	What is the TEMPEST protection in SSS	TEMPEST protection covers the additional hardware required such as TEMPEST enclosures/racks and filters. Please see Book II Part IV (SOW) paragraphs 3.5.20; 4.5; 12.5.1.h as well as SOW Annex-A paragraphs 5.2.8.a; 6.5.3.h; 6.5.14; 6.7.10.d.ii; 6.10.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.20	Book II Part I Section 1 CLIN 5.1.11	Is it Contractor responsibility to design a TEMPEST room in the ACMS?	It is not the Contractor's responsibility to design a TEMPEST room in the ACMS. TEMPEST requirements shall be met by using TEMPEST hardware and/or TEMPEST enclosures/racks. Contractor's Tempest Responsibilities are clearly indicated in SOW paragraphs 3.5.20; 4.5; 12.5.1.h as well as SOW Annex-A paragraphs 5.2.8.a; 6.5.3.h; 6.5.14; 6.7.10.d.ii; 6.10.	No
T.21	SOW Annex-C Paragraph 2.1 Figure-2	Figure-2 shows ACMS Site/Rx site. Please clarify.	Relevant place in Figure 2 shall be as to read "ACMS Site".	Yes IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.22	-	Is there OTAM antenna in ACMS?	All BRASS Receiver related equipment (receivers, receiver antennas, etc…) shall be located in the Receiver site. ACMS will have only DLOS Antennas.	No
T.23	SOW paragraph 3.4 AND 3.5	Is fire extinguishing system HN responsibility?	Yes providing Fire Extinguishing System is HN's responsibility. Please see SOW paragraphs 3.4.2; 3.4.4.q; 3.4.4.mm.	No
T.24	Sow Annex-C	Is it possible to have enhanced drawings of the sites and rooms?	Yes, figures 1,2,3, 4,7,8 in Appendix-1 to SOW Annex-C were revised and enhanced.	Yes, IFB AMD2
T.25	SOW Annex-C	Can the top of the building in the ACMS site be considered as an option for DLOS antenna? And are there any restrictions to do it (warranty)?	No, top of the building in ACMS site cannot be considered as an option for DLOS antenna.	No
T.26	SOW paragraph 3.4	Who should provide the trenching from the DLOS antenna to building?	HN's civil works contractor. Please see SOW paragraphs 3.4.2; 3.4.4.x; 12.5.1.o.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.27	SOW paragraph 3.5	Who is responsible for connection between mast tower and power supply?	It is Contractor's responsibility. Please see SOW paragraphs 3.5.12.	No
T.28	SOW Annex-A	What is the starting frequency for Rotatable Horizontal LOG-periodic (RLP) antenna?	The RLP antenna shall be designed for use 4-30 MHz.	No

T.29	SOW paragraph 3.4 and 3.5	Who will provide cabling in different rooms? Who will make the holes in the wall?	Book II Part II (Contract Special provisions Article 27: The Contractor shall be responsible for connecting, mounting, installing, integrating and cabling of the delivered equipment within the sites and at the interface with the National Defense Network (NDN) and at the interface with Power Supply System. The Contractor shall be responsible for connecting all the BRASS equipment with the requisite utility outlets. In addition, please also see SOW paragraphs 3.4.4.L; 3.4.4.kk; 3.5.13.a; 3.5.18 and 4.7. Host Nation's Civil Work Contractor will make the wall penetrations. Please see SOW 3.4.4.hh and 3.4.4.ii.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.30	SOW paragraph 3.4	Who is responsible for civil works contractor performance?	The contact point is NCI Agency, please consider that civil works can be fine-tuned after they are done, in order to address the requirements. HN has contract with civil works contractor.	No
T.31	SOW Annex-C	a. How many existing national equipment will be used in transmitter room? What is the power for each? b. What are the Electromagnetic field and Local regulations in terms of pollution? c. What is the level of radiation in this room prior to installation?	a. There are 15 pcs old transmitters. Not more than 3 pcs of which simultaneously operates with transmission power of 1 kW each b, c : Electromagnetic feed measurements done inside and around radio hall, returned values meeting the requirements of hygiene standards BDS 17137 and BDS 1425-90.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.32	SOW Annex-C	SOW Annex C Figure 5 to Appendix-1 bubble drawing: please clarify what different signs mean.	Bubble drawings indicates trees, lines represent antenna cables etc.	No
T.33	SOW Annex-C	Will the material in transmitter building room no. 3 be removed from the room?	Yes, the material will be removed by the Host Nation from Room Nr. 3 in transmitter building.	No
T.34	SOW Annex-C	Will the antenna feeder lines be removed?	The feeders to the antennas that are removed will also be removed. The other feeders remain.	No
T.35	SOW Annex-C	Annex C drawing showing rhombic underground antenna (in red): will that antenna be removed?	Yes, it will be removed.	No
T.36	SOW Annex-C	Can the DLOS rooms in ACMS, Tx and Rx sites be used for other equipment?	Yes, DLOS rooms in ACMS, Tx and Rx sites can be used for other BRASS equipment.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.37	--	At which phase the Contractor needs to submit a request to the Host Nation asking for the antennas size and location boundaries?	The Boundaries for the antennas are specified in the Tx and Rx site drawings. Bidders must propose antenna size and location in their bid.	No
T.38	SOW Annex-C	Can you specify the place for the entry point of cabling to the receiver room? Are the cabling/antenna feeder under the floor, the walls?	Contractor shall choose the entry point according to the location of antennas. Please also see Revised Figure 8 Appendix-1 to SOW Annex-C. The entry point will be below the first floor.	Yes, IFB AMD2
T.39	SOW Annex-C	How many meters to the end of the compound in Rx site? The road is flat or goes up?	300Meters. The road is flat (it will be levelled by the HN).	No
T.40	SOW Annex-C	Where will the generator be located in receiver site?	Generator will be located in a different building, not in receiver building. Please see revised Figure 7 Appendix-1 to SOW Annex-C.	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.41	Appendix 1 to Book II Part IV Annex-A Section 3	At the point 3.4 is said: " The mast shall be constructed according to quality craftsmanship standards and shall be of a tubular construction." Typically, the type of the construction is related to the design of the mast and it does not affect to the functionality of the antenna either for the radio electric and mechanical specifications. Is it accepted the mast construction in angular section instead of tubular section for what concern main structure of the mast and, eventually, in tubular section for what concerns braces of lattice tower masts?	The paragraph 3.4 of the Appendix-1 to Book II Part IV will be amended as to read: The mast shall be constructed according to quality craftsmanship standards ~~and shall be of a tubular construction~~	Yes IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.42	SOW Annex-C	What are the heights of the existing mast DLOS in ACMS, Rx site and Tx sites?	Height of the existing antenna masts: **ACMS:** - DLOS - 28м **Tx site** - DLOS – 15m - HF - 40m. **Rx site** - DLOS - 10 m. - HF – 20 m.	No
T.43	SOW Annex-C	Will the floor be raised in transmitter room?	Yes, the floor in transmitter room will be raised approximately 35-40 cm.	No
T.44	SOW Annex-C	Who is responsible to dismantle the old antennas and mounting the new ones?	HN will dismantle the old antennas. Please see SOW 3.4.2 and 3.4.4.y. Contractor shall mount the new antennas. Please see SOW paragraph 3.5.10.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.45	SOW 12.5	Where will the wall penetrations be?	After the Contractor site survey the wall penetrations will be determined. Please see SOW paragraph 12.5.1.r.	No
T.46	SOW Annex-A 6.11.10.f.ii 6.14.2.b.ii	What will happen if the antenna field is not large enough to ensure 30 DB separation?	Regarding SOW Annex-A 6.11.10.f.ii: If this is not technically possible, Bidder has to inform NCIA through clarification requests. The Agency will make an assessment of whether NCIA/HN must reduce the number of antennas, or NCIA/HN will reduce the requirement for 30DB. Regarding SOW Annex-A 6.14.2.b.ii: The requirement for 30 dB link margin for the DLOS remains.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.47	SOW Annex-C	Are there any receivers in the transmitter site apart from BRASS.	Yes, DLOS receivers.	No
T.48	SOW Annex-A	Digital antenna matrix is used only for BRASS transmitters and antennas, or for existing equipment as well?	Digital antenna matrix is used only for BRASS.	No
T.49	SOW Annex-C	To which UPS will be anti-collision light be connected?	The anti-collision lights shall receive power from the BRASS dedicated MPDB provided by the Contractor.	No
T.50	SOW Annex-C	Who is responsible for UPS?	There are 2 types of UPS. HN is responsible in the prime power supply system, while the Contractor is responsible for BRASS rack UPSs.	No
T.51	SOW Annex-C	Where is the main power distribution board in the ACMS?	Main PDB is in the generator room, while the BRASS PDB will have to be placed by the contractor in the BRASS room.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.52	SOW 3.5	a. Who is responsible to cut the trees in the transmitter and receiver antenna field? b. Who has a permission? c. How long does it take?	a. Contractor is responsible to cut the trees. Please see Book II Part II Articles 6.1; 30.1 as well as SOW Annex-A Appendix-1 Section 2.4. b. SOW Annex-A Appendix-1 Section 1.2 will be amended as follows: "Contractor is responsible for obtaining all military and Civil permissions for the installation and operation of antenna masts and all related installation activities such as cutting the trees. c. The permission procedure could last about one month in accordance with the national legislation.	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.53	SOW 3.4	Will the DPOL antenna be removed from transmitter antenna field?	Dipoles highlighted in red at Figure-5 Appendix-1 to SOW Annex-C will be removed.	No
T.54	SOW Annex-C	Direction of DPOL antenna shall be specified. In which direction should the DPOL antennas be pointed?	Antennas orientation shall be 2 each East, 2 each Southeast and 2 each south	Yes, IFB AMD2
T.55	-	Who is responsible to make DLOS calculation study?	Contractor is responsible to make DLOS calculation study. Please see SOW paragraphs 3.1; 3.5.8; 3.5.9; 3.5.10; 3.5.13 and 3.5.22.	No
T.56	SOW Annex-C	Is there visibility between ACMS and transmitter antennas?	Yes.	No
T.57	SOW 3.4	Who takes responsibility of the civil works responsibility?	HN will take responsibility for the civil works which will be completed before the system installation begins.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.58	SOW Annex-C	Is there a requirement for a specific routing of cables between DLOS, mast and building such as trenching or cable level?	HN will provide trenching as required for the ducting between DLOS antenna mast and the wall penetration into the room 16. There are no existing cables on/in the ground in this area.	No
T.59	SOW Annex-C	Was the frequency used for the test different from the requirement?	Yes. The frequency was different however, the test confirmed line of sight visibility.	No
T.60	SOW Annex-C	Where is the power supply located in the generator room in ACMS?	Outside of the building, downstairs. However, the civil works contractor will provide an adequate power feed to BRASS room. The contractor shall terminate this power feed in a BRASS distribution panel. Please also see T-1.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.61	SOW Annex-C	How high is the building outside of the fences in the ACMS? And, how high is the existing tower?	The existing building is not in the line of sight path toward the transmitter and receiver sites. A successful trial has been performed using mobile DLOS equipment positioned where a new antenna mast will be installed. The existing antenna mast is 28 meters.	No
T.62	-	Will the BRASS room be tempested by Contractor?	No, The zoning of the ACMS has been determined by the HN. Contractor shall therefore provide fully tempested (equipment, etc) installation. Please also see T-19 and T-20.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.63	Book II Part IV SOW Part 3.4.4.x Appendix-1 Annex-A	a. NCIA/HN to confirm that the complete preparation of the antenna farms for BRASS and DLOS is under HN responsibility including the clearing of any vegetation (like trees and bush) and the ground levelling. b. NCIA/HN to confirm that paragraph 2.4 of Appendix-1 Annex-A shall not be considered.	a. Cutting trees and getting permissions to cut trees are Contractor's responsibility. Complete preparation of BRASS and DLOS antenna farms (excluding cutting trees) are Host Nation's responsibility. Please also see T-52 b. Not confirmed. SOW Annex-A Appendix-1 paragraph 2.4 will be modified accordingly as to read: Execution of some of the site preparation works including cutting trees. ~~bush and vegetation clearing, demolition works and rubble removal, ground levelling and compacting~~	Yes IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.64	Book II Part IV SOW Par 3.4.4 (bb)	NCIA/HN to confirm that secured areas allocated to store all BRASS equipment will be located close to the installation areas and to provide the relevant limitations/dimensions.	Please see T-12.	No
T.65	Book II Part IV SOW Paragraph 3.5.19	NCIA/HN to confirm that contractor is not responsible to run any power cable from BRASS electrical power distribution board to MPDP.	Not confirmed. Contractor is responsible to provide power cable as stipulated in SOW paragraph 3.5.13.a and 3.5.19.	No
T.66		Do we actually require anti-collision lights?	Yes, anti-collision lights are required.	No
T.67	Book II Part IV Annex-B, Section I General paragraph 1.2	At the end of the paragraph, it says the following: The Contractor shall be fully responsible to rectify any deficiency found in the system that stems from the BICC software. Does it mean that the Contractor will be responsible for the deficiencies in the software due to the adaptation for this project, but not done previously in other projects.	Please see SOW annex-A paragraph 5.1.28.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.68	Book II Part IV Annex-A Page 68 paragraph 6.14	A new Digital Line of Sight Connectivity (DLOS) between sites shall be implemented by the Contractor. Can you confirm that DLOS exists between Tx and Rx sites? Can you confirm that crypto is not necessary for DLOS? Can you confirm that we are specifying about the frequency of work for this microwave link?	No, there is Analog LOS existing between Tx and Rx sites. It is confirmed that a separate crypto is not necessary for Digital Line of Sight. See also T-78. Contractor shall choose the frequency band for the DLOS whereas the HN will obtain permission for specific frequencies.	No
T.69	SOW Annex-C	Is it possible to add the places where antennas will not be removed into the drawings?	Please see revised Figure 3 Appendix-1 to SOW Annex-C.	Yes, IFB AMD2

T.70	Book II Part II	Number of ACMS UPS is 3; Tx UPS is 4; Rx UPS is 3 Can you please give the rationale for these quantities?	3 UPS are for ACMS MPS equipment (Book II Part II CLIN 5.1.9); 3 UPS are for ACMS RSC equipment (Book II Part II CLIN 5.3.7); 2 UPS are for TX RSC equipment (Book II Part II CLIN 6.2.4) 2 UPS are for Tx Radio equipment (Book II Part II CLIN 6.3.7) 1 UPS are for Rx RSC equipment (Book II Part II CLIN 7.2.3) 2 UPS are for Rx radio equipment (Book II Part II CLIN 7.3.6) SOW 3.5.16: The Contractor shall connect all BRASS equipment (except for the 5Kw transmitters) to BRASS dedicated UPS. Please also see SOW Annex-A 6.10.6.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.71	SOW Annex-C	In SOW Annex-C; the site layouts have notes which asks for information including "radiation diagrams" Is HN or NCIA going to do isolation and coupling calculations as well as do antenna farm plans?	No, They are the Contractor's responsibility. Please see SOW paragraphs 4.2.2.k.; 12.2.4.a; 13.7.9.c; as well as SOW Annex-A paragraph 6.11.10.b; 6.11.10.f.ii; 6.11.10.g; 6.12.4.k; Appendix-2 to SOW Annex-A paragraph 1.3 and 3.1 Book-I paragraph 4.4.9.b.xvii.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.72	SOW Section 12	HN Civil Contract Works: If HN is responsible of antenna farm excavation and leveling, how this work will be scheduled to cover BRASS contractor's requirements for the antennas to be implemented at Tx and Rx sites? Please explain the process and timeline of both contracts (HN local Contract and Contract of this IFB for BRASS BGR).	Please see SOW paragraph 12.5.1.o. At Contract Award, the proposal provided by the successful Contractor will outline the requirement for excavation and levelling to be performed by the Host Nation. After receipt of the SPDP, the HN will have the details required for executing the civil works to be completed prior to start of implementation (just after Factory Acceptance Tests).	No
T.73	SOW Annex-C	Scaled drawings of Tx and Rx sites are needed for antenna farm design. It will be best if HN can mark the areas for antennas on the drawings.	Some of the drawings were revised in Appendix-1 to SOW Annex-C.	Yes, IFB AMD2
T.74	SOW Annex-C	Autocad drawings of all the buildings at ACMS, Tx and Rx sites are required to design room layouts.	Autocad drawings shall be prepared by the Contractor. Please see SOW paragraph 13.12.3.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.75	Book II 6.11.7 HF transmitters d.x	According to reference standard ITU-R SIM 329-7, which category shall be considered for spurious limit value A/B or C?	With reference to Standard ITU-R SM.329-7, the spurious emission limits should be considered Category A. Moreover, the bidder is reminded that MIL STD 188 141 B also applies, namely its broadband and discrete spurious suppression requirements that the HF transmitters shall comply with.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.76	* Book II Part IV (SOW) Page 20 - Item 3.4. Purchaser's and Host Nations' Responsibilities. * Book II Part IV (SOW) Page 110 - Item 13.1.5.a Technical Manuals	Considering the Purchaser's and Host Nations' Responsibilities table, we understand that "Providing and Building responsibility of BRASS dedicated HVAC and Fire Extinguisher System belongs to Host Nation. However the item 13.1.5. states that "The Contractor shall furnish BRASS BGR system user manuals and maintenance manuals … Whenever in section 13, BRASS BGR system or BRASS BGR system/equipment is mentioned the definitions include BRASS BGR Supporting Systems***, provided by the Contractor***, such as SB and NB PSS, BRASS dedicated ***HVAC and FES***, antenna masts, Aircraft Warning Lights, Lightning Protection, and Grounding." Please clarify if the item 3.4 and 13.1.5 conflicts or not and that the providing and building responsibility of HVAC and FES systems belongs to HN.	SOW paragraph 13.1.5.a will be revised as to read: "…..Whenever in section 13, BRASS BGR system or BRASS BGR system/equipment is mentioned the definitions include BRASS BGR Supporting Systems, provided by the Contractor, such as BRASS dedicated ~~SB and~~ NB PSS, ~~BRASS dedicated HVAC and FES,~~ antenna masts, Aircraft Warning Lights, Lightning Protection, and Grounding".	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.77	Book II Part IV ANNEX-A Page 2 - Item 1.2.4.	In Item 1.2.4 It is stated that "The Asparuhovo transmitter site is in an elevated position about 100m above the nearest inhabited areas. Contractor shall take necessary precautions to avoid risk of interference with other commercial, public safety or international users. In the event of unexpected interference being identified, corrective action shall be taken by the Contractor." If unexpected interference is identified, is it possible to assign another place for building antenna or acceptable to decrease HF 5-kw output power?	If unexpected interference is identified, It is possible to assign another place in the antenna field by the Contractor for building antenna. Decrease of HF 5KW output power is not considered.	No
T.78	* Book II Part IV ANNEX-A Page 23 - Figure 5: BRASS BGR Overview and System Architecture	In figure 5 It is shown that the encryption of DLOS system is provided by commercial encryption. Please clarify this encryption is just for the communication of BRASS related network.	This encryption is only used for the point to point connection and is to be provided by the DLOS equipment. Please also see T-68.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.79	* Book II Part IV ANNEX-A Page 28 - Item 6.5.9.b.ii	In Item 6.5.9.b.ii: it is stated that "voice-communications sets to carry on internal operator-to-operator communication and external voice telephony." Please clarify if these communication sets are the voice terminals of the Voice Management Sub System. If these are another communication sets, please provide the specs of the workstation communication sets.	Confirmed. Voice communications sets are voice terminals of the Voice Management Subsystem.	No
T.80	* Book II Part IV Annex A Page 1 Appendix-2 - Item 1.1	In Item 1. 1 It is stated that "The BRASS BGR System shall be designed to operate with concurrent transmissions and receptions at any frequencies within the HF band 2 MHz to 30 MHz." Most of the manufacturer produces RLP antenna with the frequency range 4-30 MHz. Is it acceptable to offer transmit RLP Antennas with a frequency range of 4-30 MHz.	Yes, 4-30 MHz for RLP antenna is acceptable.	No
T.81	* Book II Part IV (SOW) Page 30 - Item 3.5.8	In Item 3.5.8 it is stated that "The Contractor shall provide the required DLOS connectivity to provide connection between the ACMS, Tx and Rx sites as stipulated in SOW Annex-A". However, this requirement is not shown in ACMS site CLIN List. Please clarify it.	This requirement shall be considered in CLIN 5.7.1 ACMS DLOS Base station.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.82	Book II Part IV Paragraph 3.4 PFE Equipment List	What is meant/requested by this kind of "3 TADPOLE Cryptographic Devices" ?	TADPOLE Crypto Devices will be provided by the NCIA to the Contractor for Ship-Shore and Maritime Rear Link (MRL) secure communications. Please see SOW 3.4.4.h; SOW Annex-A paragraph 6.6.14.b.iii; SOW Annex-B Appendix-2 Paragraphs 13.8; 14.8 and other relevant parts of the SOW Annex-A.	No
T.83	Book II Part I CLIN 5.7	Please clarify if the called point is related to PTFS or DLOS?	CLIN 5.7 is related to ACMS DLOS Connection.	Yes, IFB AMD2
T.84	Book II Part 1 Section 1 SOW Ann A Sect. 5,6 and Annex B	In order to allow the bidder to make a correct evaluation of the economical effort to provide for items 8.11 and 8.14, would you provide to us the information about the number of function points for ACMS and RCS SW ?	The purchaser will deliver the available engineering documents (SDDs and DBDD) and manuals to the bidders upon request. Source code will be given to the Contractor.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.85	Book II Part IV Annex –A point 6.11.10 -b.	For the transmitting antenna is required to foreseen an antenna farm including 2 additional antenna, for future enhancement. Would you please clarify which antenna type are you expecting (between wide band dipole and RLP ?	Not only transmitter site but also receiver site needs two additional antenna locations for the future. Please see SOW 3.5.9. Space for two additional RLP antenna locations shall be foreseen.	No
T.86	Book II Part IV Annex –A point 6.11.10 -g.	Please clarify that the antenna foundation for the 2 future antenna of future enhancement has not to be provided	Confirmed. With this BRASS BGR project, only the locations of the additional antennas will be determined. Antenna foundation will be provided with the future project, as stated in SOW Annex-A 6.11.10.g for Tx site and 6.12.4.k for Rx site. Typo will be corrected at SOW Annex-A 6.12.4.k.	Yes, IFB AMD2

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.87	Book II Part IV Annex –A point 6.12.4 – k..	For the receiving antenna is required to foreseen an antenna farm including 2 additional antenna, for future enhancement. a. Would you please clarify which antenna type are you expecting (between wide band dipole and RLP ? b. Please clarify that the antenna foundation for the 2 future antenna of future enhancement has not to be provided ?	a. Please see T-85 b. Please see T-86.	No
T.88	BOOK II PART IV ANNEX-A PAGE 53 point 6.11.2	Based on the requirements, the transmit RLP Antennas should have a power handling capacity of 5 kW over the full frequency range of 2-30 MHz. According to our experience, antenna manufacturers do not offer RLPAs that operate over 2-30 MHz with full efficiency at the 5 kW power level. Since RLPAs are generally used to communicate over medium to long distances, for which operating frequencies are 4 MHz or higher, the frequency range of a fully efficient 5 kW RLPAs is typically 4-30 MHz. Question: Is it acceptable to offer transmit RLPAs that have a frequency range of 4-30 MHz?	Yes, it is acceptable to offer transmit RLPAs that have a frequency range of 4-30 MHz.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.89	BOOK II PART IV ANNEX-A PAGE 56 Paragraph 6.11.8 a.i	The paragraph 6.11.8 a.i says that "Cooling System for HF transmitters shall have Close circuit operations." Most of the transmitter vendors advice that hot air shall be exhausted to outside of the building. **Q**: Does the defined requirement mean that exhausting hot air will be connected to the intake air part of cooling unit via air ducts?	The exhausting hot air will not go outside but will be used by the A/C cooling unit.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.90	BOOK II PART IV ANNEX-A PAGE 56 Paragraph 6.11.8 b & 6.11.7.d	The paragraph 6.11.8 b writes that - “ii. The cooling system shall be of heat-pump type, air/air reversible, with split unit installed on the walls.”, - “viii. The air flow shall be in ducts.” and “Figure 7: Equipment cooling example”, “The paragraph 6.11.7.d writes that - xxiii. Cooling: forced air” We understand that the cooling system will be consisted of two different sub cooling system one of which is split type cooling system, the other is forced air cooling system. **Q.1:** Please clarify quantity of the required cooling system? **Q.2.** Please clarify providing responsibility of the above-mentioned cooling system?	1) There is no cooling system at the moment for the national equipment. According to the Initial design - one heat-pump type system, but it is up to Host Nation’s Designer to choose at a later stage. Please also see Appendix-2 to SOW Annex-C (draft SPDP prepared by NCIA). 2) providing cooling system in transmitter room is the Host Nation’s responsibility.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.91	Book II Part IV (SOW) Page 30 Paragraph 3.5.7.	The paragraph writes that "The Contractor shall establish and provide BRASS equipment power budget including power loads for HVAC and FES provided by the Host Nation. The power budget shall enable determination of the capacity of the SB PSS and NB PSS system for each site (ACMS, Tx and Rx). Equipment power interface requirements shall also be provided by the Contractor." **Q1:** During site survey, it was stated that the contractor responsibility is to provide only NB PSS for BRASS related Electronic equipment. Please clarify paragraph 3.5.7. **Q2**: If providing NB PSS for BRASS related Electronic equipment is contractor responsibility, please provide HVAC and FES System power consumptions.	1): It is assumed that there is a misunderstanding at Bidder's interpretation during the site survey. Contractor's responsibilities are clearly stated in SOW paragraph 3.5. In addition, please see Book-I paragraph 1.5.9 and 1.5.10. 2) Yes, providing NB PSS for BRASS related electronic equipment is Contractor's responsibility. HVAC and FES system power consumptions are to be provided at a later stage upon Host Nation's Designer solution.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.92	Book II Part IV (SOW) Page 20 Paragraph 3.4.2.	The Paragraph writes that "The Purchaser will provide the following items obtained from HN, as Purchaser Furnished Equipment (PFE) and Purchaser Furnished Property (PFP) to the Contractor (Existing equipment on site, to be integrated and adapted by the Contractor as required in the SOW.)" **Q.** Please provide the existing equipment list to be integrated and adapted to BRASS System.	Please see PFE List in SOW paragraph 3.4.2 (pages 21 through 24).	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.93	Book II Part IV (SOW) Page 23 Paragraph 3.4.2. SOW ANNEX-C APP-2 Page 8 and Page 12	The table indicates that "Antenna Farms – Land excavation for BRASS And DLOS antennas / levelling/ trenching/ disposal is the responsibility of Host Nation. However in ANNEX-C APP-2 Page 8-12 it is stated that "The CIS Contractor will be responsible for Antenna field preparation (including levelling; cutting trees, bush and vegetation; removal of rubble, hazardous material; demolition works)" **Q.** Please clarify Host Nation and CIS contractor responsibility.	Host Nation's responsibilities regarding this subject are clearly stated in the SOW paragraph 3.4 (For instance, 3.4.4.x; 3.4.4.y; 3.4.4.pp; 3.4.4.uu.). Contractor's responsibilities regarding this subject are clearly stated in SOW paragraph 3.5 (for instance; 3.5.9; 3.5.10; 3.5.11; 3.5.12; 3.5.13; 3.5.22; 3.5.23; 3.5.26; 3.5.29 (3.5.29 will be added in AMD3)). Please also see SOW Annex-C paragraph 1.1.3.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.94	Contract General Provisions, Page 5, Paragraph, 5.1, Book II Part IV (SOW) Page 103 Paragraph 12.4.11.	The Paragraph 5.1 writes that "All written correspondence, reports, documentation and text of drawings delivered to the Purchaser by the Contractor shall be in the English language. The Paragraph 12.4.11 writes "Masts and equipment shall be supplied with all required homologation, certifications, operational and maintenance manuals both in English and Bulgarian languages." **Q.** Please clarify the English and Bulgarian language requirement for all documentation. Bulgarian language documents covers just for homologation and certification in order to get permission from Bulgarian Government Authorities or cover whole operational and maintenance documents	The documentation required in Bulgarian language is clearly stated in the SOW. For instance, please see SOW paragraphs 5.7.1; 12.1.3; 12.4.11; 12.4.12; 13.14.1 and other relevant IFB parts respectively. Article 29 will be modified at Contract Special Provisions to clarify the subject accordingly. In addition, following amendment will be done in SOW paragraph 13.14.1. ~~All deliverable documentation shall be provided in the English language.~~ Documentation affecting Safety Hazard and health protection matters shall be delivered in both English and HN language – Bulgarian.	Yes, IFB AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.95	BOOK II PART IV ANNEX-A PAGE 13 Paragraph 5.1.7.	In this item it is stated that "The delivery of any COTS software shall include licenses, documentation and CD or DVD containing the software and any activation key required. a.Windows Server b.Windows Client c.Oracle d.Acrobat Reader e.Open Master f.Open master Agent g.VNC Client h.Microsoft Office Professional i.Winproject j.Development environment used for porting of the BICC software g. k. k.Open Agent Tool Kit l.EMS (Nms2K-xEMS Selex) m.RACALL n.McAfee Antivirus Client (Latest Version) o.McAfee Antivirus Server (Latest Version) p.ARQ Software q.X.400 Application (XOMAIL or other compatible X.400 solution. r.Gateways (X.400 software)" **Q.** All these software is not listed in CLIN list and it may not be needed in bidder solution. Please clarify the software list.	The list of the software shows the COTS products that are known to be compatible with the version 1.6 of the BICC software. It is confirmed that some may not be required in the bidder solution. For instance, RACALL and EMS.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.96	BOOK II PART IV ANNEX-A PAGE 32 Paragraph 6.5.14.e	In this item it is stated that "Other peripheral devices such as MPS scanner, MPS Large Screen Display, MPS Tape Puncher Readers shall be complaint with relevant TEMPEST requirements." **Q.** There is no manufacturer for Tape Puncher Readers with TEMPEST certificated. In order to manage TEMPEST requirement for this equipment can we use a TEMPEST enclosure instead of TEMPEST Certificated Tape Puncher Reader?	Confirmed, Bidders can use a TEMPEST enclosure instead of TEMPEST Certificated Tape Puncher Reader. Please also see T.20.	No
T.97	BOOK II PART IV ANNEX-C PAGE 14	**Q:** Would you please provide border coordinates of the Rx site, Galata?	Host Nation cannot provide RX site boundaries coordinates.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.98	BOOK II PART IV ANNEX-C App 1, 7a7, Fig 7	The possible area with dimensions 105m x 24m for RLP Antenna System and Wideband Horizontal Dipole & DLOS antenna is deemed to be insufficient considering the antenna dimensions and required isolation between the BRASS antennas. We think the required total field should be about 60 000 $m^{2.}$. **Q:** Please advise.	An updated scheme of Rx site was sent with IFB Amendment-2, containing the designated possible places for disposal of RLP Antenna System and Wideband Horizontal Dipole & DLOS antenna. As most appropriate these have been given like an example, taking into account earth profile, vegetation of the area and existing buildings and antennas. The proposed areas exceed 60 000 m². Nevertheless, there are also other possible options except for the proposed ones.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.99	BOOK II PART IV ANNEX-C page 8, Fig 3 & BOOK II PART IV ANNEX-C App 1, 7a5, Fig 5	At the Tx antenna farm, the existing antenna system covers about 95 000 m^2 of the current 130 000 m^2. Considering the antenna dimensions and required isolation between the BRASS and existing antennas, we do need a total of 130 000 m^2 for the BRASS system antennas. But we have currently 35 000 m^2, which causes the antenna system operates inefficiently. **Q:** Please advise.	An updated scheme of Tx site was sent with IFB Amendment-2, containing the designated possible places for disposal of RLP Antenna System and Wideband Horizontal Dipole & DLOS antenna. As most appropriate these have been given like an example, taking into account earth profile, vegetation of the area and existing buildings and antennas. The proposed areas exceed 130 000 m^2. Nevertheless, there are also other possible options except for the proposed ones.	No

T.100	IFB-CO-13733-BRASS-BGR_Bidding-sheets Paragraphs: ▪ 5.1.9 ▪ 5.3.7 ▪ 6.2.4 ▪ 6.3.7 ▪ 7.2.3 7.3.6	Referred paragraphs of the Bidding Sheets require the following quantities of UPS to be provided: • ACMS : MPS= 3; RSC = 3 • TX site: RSC=2; Radios=2 • RX site: RSC=1; Radio=2 Relating to these quantities we would like to ask you to please indicate : (1) The rational for these quantities; (2) Whether it is possible to supply single UPS for each site and/or subsystem providing each one the necessary power for the respective BRASS-BGR equipment, instead of providing one UPS for each rack; (3) Whether it is required to provide separate UPS for RED equipment and for BLACK equipment.	(1) Please see T.70 (2) Please also see T.50 (3) Yes, it is required to provide separate UPS for RED equipment and BLACK equipment. As per SDIP 29-1. 3.1.1 (NU) RED/BLACK concept requires electrical and electronic circuits, components, and systems which handle classified unencrypted information (RED) be separated from those which handle encrypted or unclassified information (BLACK). Under this concept, RED and BLACK terminology is used to clarify and to differentiate between circuits, components, equipment, and systems. The terminology also differentiates between the physical areas in which they are contained.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			Please also see BOOK II PART IV ANNEX-A Paragraph 5.2.8.	
T.101	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.7	The title for CLIN 5.7 of the Bidding Sheets is "Precision Time and Frequency Standard Subsystem (PTFS)". However, it is our understanding that it refers to DLOS and for that reason (and comparing with similar paragraph for a different site) we would like to ask if the above CLIN 5.7 should be entitled "ACMS Site DLOS Connection".	Please see T.83.	No
T.102	BOOK II PART IV ANNEX-A, page 60, paragraph 6.11.10.f.ii	Please provide the real dimensions for the areas available for installation of the antennae fields both for the Asparuhovo TX and Galata RX sites.	For Tx site, please see SOW Annex-C (AMD2) Figure-3 to Appendix-1. For Rx site, please see SOW Annex-C (AMD2) Figure-7 to Appendix-1.	No
T.103	BOOK II PART IV ANNEX C	Please indicate any limitations and / or restrictions to be considered regarding antennae farm installation.	The distance from existing buildings and antennas is 30 meters.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.104	BOOK II PART IV ANNEX C 7a7-Figure-7 to App1 to SOW Annex C	7a7-Figure-7 to App1 to SOW Annex C presents a shadowed area with the legend "Possible area for RLP Antenna System Wideband Horizontal Dipole & DLOS antenna". Taken into consideration the physical dimensions of the antennae types required in the tender and the dimensions presented in the referred figure for the shadowed area above mentioned, it is not possible to fit all the required antennae in such area. For this reason it is our understanding that the shadowed area presented in the referred figure (7a7-Figure-7 to App1 to SOW Annex C) is a possible area to be used for antennae farm installation but it is not the only area that can be used for such. We kindly ask you to please confirm our understanding and please indicate what areas of the Galata RX site can also be used for antennae installation.	Updated dimensions and layout of the possible placement for the different types of antennas for Rx site are sent with IFB Amendmen-2. The proposed areas exceed 60 000 m². There are other possible options for placement of the BRASS antennas except for the proposed ones. Please also see Appendix-1 to SOW Annex-C (AMD2) Figure-3.	No
T.105	BOOK II PART IV ANNEX A, page 59, paragraph 6.11.10 a.	In BOOK II PART IV ANNEX A, page 59, paragraph 6.11.10 a. it is specified that RF cables shall comply with the same environmental requirements as specified in Annex-A Appendix-1. However, in Annex-A Appendix-1 we cannot find any requirements for RF Cables. Please clarify.	SOW Annex-A Paragraph 6.11.10.a refers to SOW Annex-A Appendix-1 paragraph 3.5. The requirements for RF cable is stated in SOW Annex-A paragraph 6.11.11.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.106	BOOK II PART IV ANNEX A, page 65, paragraph 6.12.4 a.	In BOOK II PART IV ANNEX A, page 65, paragraph 6.12.4 a. it is specified that RF cables shall comply with the same environmental requirements as specified in Annex-A Appendix-1. However, in Annex-A Appendix-1 we cannot find any requirements for RF Cables. Please clarify.	SOW Annex-A Paragraph 6.12.14.a refers to SOW Annex-A Appendix-1 paragraph 3.5. The requirements for RF cable is stated in SOW Annex-A paragraph 6.11.11.	No
T.107	BOOK II PART IV ANNEX A, page 61, paragraph 6.11.11 b.i.	In BOOK II PART IV ANNEX A, page 61, paragraph 6.11.11 b.i. it is specified that RF cables on internal installations must be laid on metal ducts or vertical cable ladder. Please confirm whether ducts and / or vertical ladders are to be provided by the contractor or are PFE (provided by the HN).	It shall be provided by the Contractor.	No

T.108	BOOK II PART IV ANNEX A, page 61, paragraph 6.11.11 b.ii.	In BOOK II PART IV ANNEX A, page 61, paragraph 6.11.11 b.ii. it is specified that RF cables on external installations must be laid in cable duct trenches, routed through pipes if flexible, or laid in pipes if rigid. It is our understanding that ducts are to be performed by HN. Please confirm this understanding and provide clarification on who has the responsibility of providing and installing the pipes inside the trenches. Is that a HN responsibility as well? And the sealing of the half pipes with mortar is also a HN responsibility?	Bidder's understanding is NOT confirmed. Please see T-26 and T-58. HN's responsibilities where to provide trenching and ducting are clearly stated in T.26 and T.58. In addition, following remarks will be added to SOW 3.4.4.x: HN is responsible only for excavation of cable duct trenches for RF cables and power cables of the rotational antennae and the navigation lights. However, installing pipes inside the trenches and the sealing of the half pipes with mortar is CIS Contractor's responsibility. Regarding Contractor's civil works responsibilities Following phrase will be	Yes, IFB AMD3

			added to SOW as paragraph 3.5.29: Installing pipes inside the trenches and the sealing of the half pipes with mortar is CIS Contractor's responsibility. The contractor shall execute all other works in accordance with the national legislation, namely *Law on Spatial Planning*, *Ordinance 17/03.06.2005 on the rules for construction of cable and telecommunications networks and their facilities for RF cable ducting* (leveling, finishing works and trenching safety measures, ducting and splicing, installing of RF cables, soil filling and marking of the duct trenches, etc. (by the Minister of Transport, Information Technology	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			and Communications and Minister of Regional Development and Public Works).	
T.109	BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.c.iv.	In BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.c.iv. it is indicated that Audio Switches are one of the CISS Switching Subsystem components. In paragraphs 6.6.8 through 6.6.15 are presented the requirements for several CISS Subsystems components. However we were not able to find a description for Audio Switches component neither the respective requirements in paragraph 6.6. Please clarify and provide description and requirements for Audio Switches as components of CISS Switching Subsystem, its connectivity and type and quantities of interfaces.	Please see BOOK II PART IV ANNEX-A PAGE 54, Paragraph 6.11.6.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.110	BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.d.iii.	In BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.d.iii. it is indicated that Radio Frequency Modems are one of the CISS Communication Subsystem components. In paragraphs 6.6.8 through 6.6.15 are presented the requirements for several CISS Subsystems components. However we were not able to find a description for Radio Frequency Modems component neither the respective requirements in paragraph 6.6.v Please clarify and provide description and requirements for Radio Frequency Modems as components of CISS Communication Subsystem.	Please see SOW Annex-A paragraph 6.11.5.	No
T.111	BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.d.iv.	In BOOK II PART IV ANNEX-A PAGE 32, Paragraph 6.6.1.d.iv. it is indicated that Voice RF modems are one of the CISS Communication Subsystem components. In paragraphs 6.6.8 through 6.6.15 are presented the requirements for several CISS Subsystems components. However we were not able to find a description for Voice RF modems component neither the respective requirements in paragraph 6.6. Please clarify and provide description and requirements for Voice RF modems as components of CISS Communication Subsystem.	Voice modems for RF channels shall comply with STANAG 4197. Please also see SOW Annex-A 6.11.1.e.	No

T.112	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.2.5 and BOOK II PART IV ANNEX-A, Paragraph 6.6.	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.2.5 it is required to provide 1 (one) Multiplexer (Intersite). This item is inserted as a CISS component. However we cannot find any reference to this item in BOOK II PART IV ANNEX-A, Paragraph 6.6. where CISS components are listed, described and respective requirements are presented. Please clarify and provide description and requirements for Multiplexer (Intersite) as components of CISS, its connectivity and type and quantities of interfaces.	SOW Annex-A 6.6.1.d (CISS Communication Subsytem) will be amended as follows: v. Multiplexer (intersite). A new paragraph (6.6.16) will be added to the SOW Annex-A. 6.6.16: **Multiplexer (intersite)** a. The multiplexer shall be able to provide intersite transport concurrently for at least 8 simultaneous full-duplex serial communications circuits each at rates up to 19.2 kbps with low jitter and delay commensurate with VoIP requirements. b. The multiplexer shall be provided with a LAN interface to be controlled from RSC via the RSC LAN. The parameters to be controlled shall be;	Yes, IFB AMD3

			master, slave configuration, internal-external clock; line activation/deactivation, rate and polarity of each interface, automatic self-diagnosis tests. c. In addition to above capacities, the multiplexer shall provide extra capacity to serve to two additional communication lines that will be established by a future BRASS Enhancement 1 (BREITA) Project. Please also see SOW Annex-A paragraph 6.6.11 (Definition of black switch). Bidders can propose their own design/solution as long as all contractual functional and technical requirements are met.	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.113	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.2.5 and BOOK II PART IV ANNEX-A, Paragraph 6.6.	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.2.5 it is required to provide 1 (one) Multiplexer (Intersite). It is our understanding that this component would require a corresponding component at TX site and also at RX site. However neither in the set of CLINs for the TX site nor in the set of CLINs for the RX site, we were able to find the corresponding ACMS Multiplexer (Intersite). Please clarify and provide rational, its connectivity and type and quantities of interfaces.	Black Switch in Rx and Tx sites shall provide Multiplexer capability and requirements.	No
T.114	BOOK II PART IV ANNEX-A PAGE 42, Paragraph 6.7.5.e.	In BOOK II PART IV ANNEX-A PAGE 42, Paragraph 6.7.5.e. it is requested to provide 1 (one) isolator (MPS-RSC). Please provide the functionality and requirements for such component.	Please see SOW Annex-A 5.2.5.a.iii; 6.1 (Figure-5); 6.6.15.b; 6.6.15.c; 6.6.15.e; 6.7.3; 6.7.4; 6.7.10.	No
T.115	BOOK II PART IV ANNEX-A PAGE 42, Paragraph 6.7.5.g.ii	In BOOK II PART IV ANNEX-A PAGE 42, Paragraph 6.7.5.g.ii it is request 1 (one) large screen display for RSC at ACMS. It is our understanding that this LSD must be equal (same requirements) as for the LSD for MPS. Please confirm this understanding or, otherwise, provide requirements for this RSC component.	Confirmed the Bidder's understanding. Requirements for two LSDs (LSDs for MPS and RSC) shall have the same.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.116	BOOK II PART IV ANNEX-A PAGE 49, Paragraph 6.8.14.a.	In BOOK II PART IV ANNEX-A PAGE 49, Paragraph 6.8.14.a. it is presented the general requirements for the Recorders to be provided for VMSS. It is our understanding that only voice communications established with the four (4) Human Machine voice interfaces, one per operator, are to be recorded. Please confirm this understanding.	Confirmed the Bidder's understanding. Voice communications established with the four (4) Human Machine voice interfaces, one per operator, are to be recorded.	No
T.117	BOOK II PART IV ANNEX-A PAGE 49, Paragraph 6.8.14.a.	In BOOK II PART IV ANNEX-A PAGE 49, Paragraph 6.8.14.a. it is presented the general requirements for the Recorders to be provided for VMSS. Please indicate the capacity for such recorders, specifying the period for which recording data must be kept available for on line retrieval.	~48h to cover one 24h shift and give time to offload the recording data to another media.	No
T.118	BOOK II PART IV ANNEX-A PAGE 50, Paragraph 6.9.1.e.	In BOOK II PART IV ANNEX-A PAGE 50, Paragraph 6.9.1.e. it is requested one Isolator for PTFS. Please provide specifications and requirements for this component.	The requirement for the PTFS isolator is to avoid compromising emissions from MPS when connecting PTFS subsystem to the red site of the BRASS system.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.119	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.5.4	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.5.4 it is requested the supply of 3 Isolator for PTFS. Please indicate the rational for this quantity and where should these 3 isolators be used (connecting PTFS to which other components from which subsystems).	The quantity in the Bidding Sheet CLIN 5.5.4 will be amended as to read "1" PTFS can/should be placed on Black side (e.g., GPS receiver or atomic clock); Isolator required to connect PTFS to red side. Black/Red sides of system are only at ACMS, therefore only one required.	Yes, IFB AMD3
T.120	BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6 and IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 5.1.9, 5.3.7, 6.2.4, 6.3.7, 7.2.3 and 7.3.6	In BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6 it is requested the provision and installation of BRASS dedicated NB PSS at the ACMS, Tx and Rx sites to protect sensitive units and devices. It is our understanding that a UPS system shall be considered for each site. However, by reading the several CLINs of IFB-CO-13733-BRASS-BGR_Bidding-sheets it seems that what is required is the provision and installation of several independent UPSs one for each rack providing back up power for the equipment installed in the same rack. Please clarify and provide guidance and rational for the UPS system required.	The bidder is free to propose alternate UPS system solution in which all BRASS equipment as stated in SOW 3.5.16 is considered and as long as all contractual requirements are met. Please also see T-100.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.121	BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6, Book II Part IV Annex C Page 5, paragraph 2.5.8, Book II Part IV Annex C Page 8, paragraph 3.2.1, Book II Part IV Annex C Page 15, paragraph 4.2.1	In BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6 it is requested the provision and installation of BRASS dedicated NB PSS at the ACMS, Tx and Rx sites to protect sensitive units and devices. However: (1) In Book II Part IV Annex C Page 5, paragraph 2.5.8 it is stated that UPS for the ACMS site will be provided by HN; (2) In Book II Part IV Annex C Page 8 paragraph 3.2.1 it is stated that Uninterruptable Power Supply for Tx Site will be provided as Purchaser Furnished Equipment (PFE) and Purchaser Furnished Property (PFP) to the Contractor; (3) In Book II Part IV Annex C Page 15 paragraph 4.2.1 it is stated that Uninterruptable Power Supply for Rx Site will be provided as Purchaser Furnished Equipment (PFE) and Purchaser Furnished Property (PFP) to the Contractor. It is our understanding that there is a conflict between the contents of the above referred paragraphs. Please clarify.	There is no conflict. Please see T.50 Contractor is responsible for providing UPS for BRASS dedicated equipment and HN is responsible for providing UPS for National equipment and facility.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.122	BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6.c. and BOOK II PART IV ANNEX-A PAGE 52, paragraph 6.10.6.h.iv.	In BOOK II PART IV ANNEX-A PAGE 51, paragraph 6.10.6.c. it is required that UPS provides a minimum of fifteen (15) minutes backup power in case the Prime Power Supply System fails. However, in BOOK II PART IV ANNEX-A PAGE 52, paragraph 6.10.6.h.iv. it is required UPS to have an operating time with max load not less than 30 min. It is our understanding that these 2 requirements are not coherent. Please clarify.	SOW Annex-A paragraph 6.10.6.c will be amended as to read: UPS shall provide no less than 30 (thirty) minutes ~~a minimum of fifteen (15) minutes~~ backup power in case the Prime Power Supply System fails. Additionally, UPS is required to operate at maximum load for no less than 30 minutes.	Yes, IFB AMD3

T.123	BOOK II PART IV ANNEX-A PAGE 52, paragraph 6.11.1.f. and IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 6.1.4, 6.1.5 and 6.1.6	In BOOK II PART IV ANNEX-A PAGE 52, paragraph 6.11.1.f. it is requested the provision and installation of 1 (one) Data Switch and 1 (one) Black Switch while in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 6.1.4, 6.1.5 and 6.1.6 it is requested the provision and installation of 1 (one) Data Switch, 1 (one) Analog switch for remote sites and 1 (one) Black Switch. Please clarify the following: (1) The discrepancy between the 2 documents since the Bidding-sheets refer an Analog switch for remote sites that is not mentioned in BOOK II PART IV ANNEX-A PAGE 52, paragraph 6.11.1.f; (2) The rational for having the 3 components indicated in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 6.1.4, 6.1.5 and 6.1.6 instead of having the corresponding functionality provided by the single Black Switch (as seems to be the case at ACMS). Using the 3 components referred in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 6.1.4, 6.1.5 and 6.1.6 would mean to have 2 consecutive levels of switching. Please indicate in such condition what would be the type of interface between Black Switch and Data Switch and Analog Switch; (3) Please clarify connectivity and type and quantities of interfaces for each of the referred components.	(1) SOW Annex-A 6.11.1.f will be amended as follows: one (1) Digital Black switch, one (1) Analog switch, ~~and~~ data switch as well as one (1) audio switch. (2)and (3): Bidders can propose different solution that can handle all relevant hardware/system in one unit as long as Bidder's solution meets contractual requirements. If bidders prefer to propose different switching units as stated in the IFB; As bidders may freely choose to embed protocol transcoding or interface conversion between the Switches (e.g., in the manner of a serial-over-IP terminal	Yes, IFB AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			concentrator for local-area-networks) to meet Contractual requirements, the exact number and nature of physical interfaces to the switch will depend on the bidder's own design. Consequently, the bidder would do well to develop and present in their bid the required number of input and output circuits for the Switches as well as their type and characteristics using SOW information and requirements provided.	
T.124	BOOK II PART IV ANNEX-A PAGE 54, paragraph 6.11.7 d.vi.	In BOOK II PART IV ANNEX-A PAGE 54, paragraph 6.11.7 d.vi. it is requested that HF transmitters have the capability of providing "*Output RF power: 5kW PWP and mean*". Please clarify if it was meant to be 5kW PEP instead of 5kW PWP and clarify if 5kW are to be PEP or mean.	SOW Annex-A paragraph 6.11.7.d.vi will be amended as to read: Output RF power: 5kW PEP.	Yes IFB/AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.125	BOOK II PART IV ANNEX-A PAGE 62 paragraph 6.11.12-a.i., ii., iv. and vi. BOOK II PART IV ANNEX-A PAGE 66, paragraph 6.12.4.k. Book II Part IV Annex C Page 9, paragraph 3.2.7 and 4.2.7	In BOOK II PART IV ANNEX-A PAGE 62 paragraph 6.11.12-a.i., ii., iv. and vi. It is required that Contractor shall prepare the area for HF antenna installation (Tx and Rx), shall excavate up to 35cm the area intended for the laying of the ground plane and verify the flatness, shall put in place a layer of dry rubble on the levelled area and shall put in place a layer of at least 10cm of mixed quarry. In BOOK II PART IV ANNEX-A PAGE 66, paragraph 6.12.4.k. It is required that the Contractor shall design and implement suitable antenna mast foundation works (including relevant earth works) required for the installation of new antenna mast for BRASS and DLOS systems. However, in Book II Part IV Annex C Page 9, paragraph 3.2.7 and 4.2.7 it is stated that HN will provide as PFE the following: "*Antenna Farm / Land excavation for BRASS and DLOS antennas / levelling/trenching/ disposal.*" It is our understanding that there is incoherence between the contents of the above listed paragraphs. Please clarify on who will effectively be the responsible for such civil works related with antenna farm preparation.	Please see T.108 and SOW 3.5.29.	Yes, IFB AMD3

T.126	BOOK II PART IV ANNEX-A PAGE 64, paragraph 6.12.1.d. and IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 7.1.1, 7.1.4 and 7.1.5	In BOOK II PART IV ANNEX-A PAGE 64, paragraph 6.12.1.d. it is requested the provision and installation of 1 (one) Data Switch and 2 (two) Black Switch while in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 7.1.1, 7.1.4 and 7.1.5 it is requested the provision and installation of 1 (one) Data Switch, 1 (one) Analog switch for remote sites and 2 (two) Black Switch. Please clarify the following: (1) The discrepancy between the 2 documents since the Bidding-sheets refer an Analog switch for remote site that is not mentioned in BOOK II PART IV ANNEX-A PAGE 64, paragraph 6.12.1.d; (2) The rational for having the 3 components indicated in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 7.1.1, 7.1.4 and 7.1.5 instead of having the corresponding functionality provided by the single Black Switch (as seems to be the case at ACMS). Using the 3 components referred in IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 7.1.1, 7.1.4 and 7.1.5 would mean to have 2 consecutive levels of switching. Please indicate in such condition what would be the type of interface between Black Switch and Data Switch and Analog Switch; (3) The rational for requiring for Rx Site 2 (two) black switches instead of only 1 (one) as it is the case for both Tx Site and ACMS; (4) Connectivity and type and quantities of interfaces for each of the referred components;	1) SOW Annex-A 6.12.1.d (Receiver site) will be amended as follows: one (1) Black switches (with digital and analog interfaces), one (1) Analog switch, one (1) audio switch and one (1) data switch. SSS/Bidding Sheet CLIN 7.1.1 (Rx site BRASS CISS) will be amended as follows: Black Switch (with digital and Analog Interfaces) Qty:1. (2), (3) and (4): Bidders can propose different switching solution as long as Bidder's solution meets all other contractual functional and technical requirements. As bidders may freely choose to embed protocol transcoding or interface	Yes, IFB AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			conversion between the Switches (e.g., in the manner of a serial-over-IP terminal concentrator for local-area-networks) to meet Contractual requirements, the exact number and nature of physical interfaces to the switch will depend on the bidder's own design. Consequently, the bidder would do well to develop and present in their bid the required number of input and output circuits for the Switches as well as their type and characteristics using SOW information and requirements provided.	

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.127	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 5.	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 5.1.9. and 5.3.7. its is requested to provide UPS in Racks respectively for MPS and RSC. However there are other components relevant to system operationally and capability of continuous operation in the event of a mains power failure that are not protected by UPS (CLINs 5,2. CISS, 5,4 VMSS, 5,5 PTFS, 5,6 BRASS BGR connectivity to NGCS and 5,7 DLOS). Please clarify and confirm that components for CLINs 5,2. CISS, 5,4 VMSS, 5,5 PTFS, 5,6 BRASS BGR connectivity to NGCS and 5,7 DLOS do not require backup power from UPS.	Not confirmed. Please see SOW 3.5.16 and answer to T.120.	No
T.128	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 6.	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 6.2.4. and 6.3.7. it is requested to provide UPS in Racks respectively for BRASS RSC and BRASS Radio HW. However there are other components relevant to system operationally and capability of continuous operation in the event of a mains power failure that are not protected by UPS (CLINs 6,1. BRASS CISS, 6,4 DLOS). Please clarify and confirm that components for CLINs 6,1. BRASS CISS, 6,4 DLOS do not require backup power from UPS.	Not confirmed. Please see SOW 3.5.16 and answer to T120.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.129	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLIN 7.	In IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 7.2.3. and 7.3.6. it is requested to provide UPS in Racks respectively for BRASS RSC and BRASS Radio HW. However there are other components relevant to system operationally and capability of continuous operation in the event of a mains power failure that are not protected by UPS (CLINs 7,1. BRASS CISS, 7,4 DLOS). Please clarify and confirm that components for CLINs 7,1. BRASS CISS, 7,4 DLOS do not require backup power from UPS.	Not confirmed. Please see SOW 3.5.16 and answer to T120.	No
T.130	BOOK II PART IV ANNEX-A PAGE 59, paragraph 6.11.10	Please indicate the required bandwidth for the following HF transmitting antennae: (1) Six (6) Wideband Horizontal Dipole Antennas; (2) Two (2) RLP Antennas	Dipole antennae shall have 2 – 30 MHz bandwidth RLP antennae shall have 4 – 30 MHz bandwidth.	No
T.131	BOOK II PART IV ANNEX-A PAGE 65, paragraph 6.12.4	Please indicate the required bandwidth for the following HF receiving antennae: (1) Three (3) Wideband Horizontal Dipole Antennas; (2) Two (2) RLP Antennas	See T.130. the system shall have a duplex capability. Dipole antennae shall have 2 – 30 MHz bandwidth RLP antennae shall have 4 – 30 MHz bandwidth.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.132	Book II Part III (SOW) 5.3.3	It is stated that "BRASS BGR system components shall possess Product Certification Reports issued by authorised Evaluation and Certification Authorities". Please indicate for each of the following system components if this requirement applies or not: 1 - MPS FEPs 2 - ARQ Processor 3 - X.400 Gateway 4 - RSC Server and Workstations 5 - RSC FEPs 6 - VMSS components 7 - Red Switch	Please see BOOK II PART IV ANNEX-A , Paragraph 6.5.14.	No
T.133	Book II Part III (SOW) 5.3.3	Is the current version of the BICC Software 1.6 already certified? If so, will the respective Certification Reports delivered together with the BICC Software to the Contractor?	BICC software version 1.6 is not certified. There is no requirement for certification of the components. The requirement is for the accreditation of the whole system.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.134	IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 5.6.1 and 5.6.2	Please provide specifications and requirements for items under IFB-CO-13733-BRASS-BGR_Bidding-sheets CLINs 5.6.1 and 5.6.2, Red Routers and Black Routers respectively.	It is up to the Bidders to propose the networking components of their proposed technical solution to meet the requirements of the SOW. Current NATO classified and unclassified IP networks are mainly based on Cisco equipment, however this is provided for informational purposes and shall not be deemed as a mandatory requirement. Please also note that the system will both connect to NATO and BGR (mixed NATO/National functionality).	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.135	Appendix-2 to Book II Part IV Annex A Page 1, paragraph 1.1	It is defined that BRASS-SSSB-ROU system shall be designed to operate within the HF band 2 MHz to 30 MHz. If all antennae are to operate from 2 to 30 MHz all of them will have large dimensions, in particular the RLP. For that matter we would like to ask NCI Agency the following: (1) Is it possible for you to define the bandwidth for the antennae stating a large bandwidth for some of them and a reduced bandwidth for the others? (2) Is it acceptable to offer RLPAs that have a frequency range of 4-30 MHz?	(1) Please refer to the answer T.130 and T.131 (2) Please see T.88; T.130 and T.131	No
T.136	BOOK II PART IV ANNEX-A PAGE 66, paragraph 6.12.4.k.	In BOOK II PART IV ANNEX-A PAGE 66, paragraph 6.12.4. (HF Receiving Antennas), subparagraph k. it is requested that: "*The antenna farms on Tx site will host the antennas of BRASS system as well as two additional antennas of future enhancement to BRASS (deployable land force support).*" Please confirm if this requirement refers to Tx site or if it is required for Rx site to consider the location of 2 additional antennae for future projects.	The requirement is for Tx and Rx sites. Please also see the second part of the answer to T.86.	No

T.137	BOOK II PART IV ANNEX-A PAGE 31, paragraph 6.5.14	In BOOK II PART IV ANNEX-A PAGE 31, paragraph 6.5.14 it is defined the Tempest Protection for MPS and CISS Red Hardware. It is our understanding that it is specified that some equipment will have to be installed inside TEMPEST cabinets and some other equipment is requested to meet relevant TEMPEST Level requirements. Will it be acceptable to provide TEMPEST protection for the room where MPS and CISS Red Hardware will be installed and to use COTS hardware (that is, without meeting TEMPEST Level Requirements at equipment level) instead of assuring TEMPEST protection using TEMPEST equipment (that may not be available from mainstream brand manufacturers as required in Appendix-3 to Book II Part IV Annex A).	No, Bidder's proposal is not acceptable. According to the SOW Annex-A par. 6.5.3.h and 6.5.14 (all sub-paragraphs), TEMPEST protection of all MPS and NCISS red hardware is in addition to the TEMPEST protection of the cabinets where the MPS and CISS equipment will be installed. TEMPEST protection of the MPS and CISS equipment is the contractor's responsibility and is a strict requirement, independent from the cabinets' and rooms' TEMPEST protection. The room's TEMPEST protection is the responsibility of the HN and not of the contractor. Please also see T.19; T.20; T.62 and T.96.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.138	SOW Annex-A 6.6.8.e	Red/Black Switch 6.6.8.e Red switch shall be able to handle at least 50 communication lines (This requirement applies to both the ACMS software and the red switch.). (page 324) What is the number of digital and analog communication lines that Red Switch can handle. Digital channels could not be used as analog channel so the exact number of digital and analog. channels must be defined. Please clarify	This is the subject to the Bidders' own implementation choices to meet the SOW requirements. The bidder shall do well to develop required number of input and output circuits for the Red Switch as well as their type and characteristics using SOW information and requirements provided but not limited to the Book II Part IV Annex A.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.139	SOW Annex-A 6.5.11.c	IP Crypto The required IP crypto and network devices shall be provided by the HN as an extension of NGCS tunnelled through National Defence Network (NDN) (Page 320) IP to serial converters are accepted as network devices that shall be provided by HN. Please clarify.	As stated in SOW Annex-A 6.5.11.c the contractor's responsibility is up to the red interface of the IP Crypto equipment and to make sure that the system delivered operates with the existing IP Crypto. The IP to serial converter will normally be installed between red interface of IP Crypto and BRASS MPS system.	No
T.140	SOW Annex-A 6.8.14.a	Voice Recorder 6.8.14.a The Voice Management Subsystem (VMSS) shall contain two recorders with possibilities to save all voice communications upon request. The Contractor shall provide appropriate recorder(s) to meet this requirement (Page 339) What is the capacity of the recorders? Which audio format used for recording? To listen saved voice communications which subsystems connected to these recorders? Please clarify.	Please see T.116 and T.117.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.141		Tx Voice RF Modem, Rx Voice Modem Please confirm that Tx and Rx Voice modem is actually terminal equipment providing secure voice and data communications with full key distribution and remote rekey capabilities	The voice modems are terminal equipment in a sense that they are used at points where data are inserted or derived, as distinct from equipment used only to relay a reconstituted signal. The security shall be achieved by voice crypto devices.	No
T.142	SOW Annex-A 6.6.4	ACMS-RX-TX DLOS Connection: 6.6.4. The CISS shall consist of three components: one switching component installed in ACMS and two communications component, installed in Tx and Rx Sites, that shall be connected through the National Defence Network (NDN). (Page 323) Connection between ACMS-RX-TX designed via Radio Link. Please clarify.	National Defense Network (NDN) among ACMS, RX and Tx sites shall be implemented by the Contractor. Please see SOW Annex-A 6.14 and SSS (IFB AMD2) CLINs: 4.4; 4.5; 4.6; 5.7; 6.4; 7.4.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.143	-	Human Machine Interface (Voice Terminals) Under paragraph 6.8.9, there is a requirement for digital voice (built in vocoder) communication with crypto or plain selection via mechanical switch. Please clarify that Voice terminal equipment will also have analogue Audio output and input which will be crypted and en-crypted by using Tx and RX Voice Modems (Secure Voice Terminal equipment as T-141 above)	Please see BOOK II PART IV ANNEX-A , Paragraph 6.8.7 d. The encryption shall be managed by the voice crypto not the modems. The PFE voice cryptos provide analogue black-side interface in accordance with STANAG 4197.	No
T.144	BOOK II PART IV ANNEX A 4.1.6, 5.2.2.c	Which document contains the national requirements adaptations to the PFE BICC SW ?	There is not national requirements adaptation for BRASS BGR system.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.145	BOOK II PART IV ANNEX A 5.1.8 ARQ SW Note 2	It is requested to modify a third party SW as ARQ from Selex to support full duplex functionality. It may implies the source code delivery for the third party that may be under CopyRigths. Should Contactor have to assume this possible extra costs?	The MDH ARQ software was presented in BOOK II PART IV ANNEX A 5.1.8 as COTS solution that is compatible with the BICC software version 1.6. The Bidder is free to propose other compatible COTS solutions for the STANAG 5066 software.	No
T.146	BOOK II PART ANNEX A 5.2.3 and 5.2.5.a.vii	Should coverage analisys tools for MPS and RSC be available as part of PFE BICC SW package?	No, Coverage analysis tools are not available in PFE BICC SW package. The tools shall be delivered by the Contractor as COTS products.	No
T.147	BOOK II PART ANNEX A 6.5.1	Could you confirm if BICC SW adaptation to support SNMPv3 is a Contractor responsibility?	It is confirmed.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.148	BOOK II PART IV ANNEX A 6.5.6.d and 6.5.13.c	How many days as a minimum will be required as storage for message history at MPS: 31 or 60 days?	Minimum 60 days. SOW Annex-A paragraph 6.5.6.d will be amended as follows: "On-line storage of the traffic of the previous 60 days".	Yes/AMD3

T.149	BOOK II PART IV ANNEX A 6.8.4 and 6.8.5	Local PABX is indicated as PFE in 6.8.4 and 6.8.5 but it is no listed in 3.4.2. Please clarify if Local PABX is PFE and in that case provide the model of that PABX and details of availab interfaces to interconnect with voice channels to VMSS, an control to RSC and MPS.	The currently existing PABX is not a part of the PFE List, as in SOW 3.4.2. As according to the national legislation on protection of classified information it is not allowed existing PABX to be connected to subsystems of BRASS system. For achieving capabilities, as according to 6.8.4, 6.8.5 and 6.8.7 in SOW Annex-A, it is necessary that the Contractor provides an individual local PABX with a capacity up to 20 IP users /including a 20 port IP switch and 20 IP phone stations/. This PABX is not to be connected to existing phone network. Users of the new PABX are to be positioned in Marine operational center, located in the area of ACMS site.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			In this case the Contractor is to consider that the local PABX interfaces are to interconnect with voice channels to VMSS, and control to RSC and MPS.	
T.150	BOOK II PART ANNEX C SECTION 4 Figure 4	Could you confirm that Figure 4 on IFB AMD2 Book II Part I Annex C Page 14 doesn't correspond with drawing on Figu Appendix-1 to Book II Part IV Annex-C which is depicted Building 24 and 28 which is actually the RX installation site	Updated scheme of Rx site delivered with IFB AMD2 gives clear information that equipment is going to be situated in building 24 on the Rx site. The diesel generator is to be situated in building 28.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.151	BOOK II PART IV ANNEX C SECTION 4	Can we assume that references to Backup generator syste and UPS in points 4.3.2 and 4.3.3 are for RX site instead of site?. iteratively	"Tx site" in SOW Annex-C paragraph 4.3.2 and 4.3.3 should be read as "Rx site". Note to Bidders: This amendment will be reflected in the SOW Annex-C at the Contract Award unless there is any outstanding amendment requirement to be done in the SOW Annex-C until Bid Closing Date.	Yes, IFB AMD3
T.152	SOW Annex-A 6.6.8.e;	The number of actually used communication channels were defined and the engineering design will be based on those figures. However, the capacity of the RED Switch was defined for 50 input channels. Please clarify the number of digital and analog channels out of 50.	Please see T.138	No
T.153	SOW Annex-A 6.5.11.c;	It is assumed that the IP Crypto's output will be converted by IP to serial data converters before connected to the RED Switch. Please clarify who is responsible to provide IP to serial data convertors.	It is the Contractor's responsibility.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.154	SOW Annex-A 6.8.14.a;	The number of actually used communication channels were defined and the engineering design will be based on those figures. However the capacity of the recorders available in the market are much higher than the actual defined number of channels. Please clarify; - the capacity of the recorders, - audio format used for recording, in order to listen to recorded voice communications which subsystems shall be connected to these recorders?	The SOW reference requires the VMSS "to save all voice communication on request" and the answers to T.116 and T.117 specify the capacity required. The audio format is not specified and the contractor is free to supply recordings in any format providing that they shall not degrade the intelligibility of the recorded voice channel. Recorders are a requirement for the voice system only, and don't require high fidelity.	No
T.155	SOW Annex-A 6.11.1.e 6.12.1.c;	Please confirm that Tx and Rx Voice modem is actually Advanced STANAG 4197 Narrowband Digital Voice Terminal Equipment (ANDVT or AN/DVT) which can transmit encrypted digital voice over HF.	It is confirmed.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.156	SOW Annex-A 6.6.4.; 6.14	Please clarify that mentioned “NDN” between ACMS, Tx and Rx sites is going to be “DLOS” as specified under paragraph 6.14.	Confirmed. National Defense Network (NDN) between ACMS, Tx and Rx sites is going to be “DLOS” as specified under SOW Annex-A 6.14. Please also see T.142	No

T.157	SOW Annex-A 6.8.9 Human Machine Interface (Voice Terminals):	Under paragraph 6.8.9, there is a requirement for digital voice (built in vocoder) communication with crypto or plain selection via mechanical switch. Please clarify whether Voice terminal equipment would also have analogue Audio output and input which would be de-crypted or en-crypted by using Tx and RX Voice Modems.	Digital voice in this paragraph can refer specifically to users equipped with STANAG 4591 or STANAG 4197/4198 codecs. STANAG 4198 specifies inter alia the digital bit stream for interoperability between voice codecs using Linear-Predictive Coding; STANAG 4197 specifies inter alia the modem's transformation of a STANAG 4198 codec's digital voice stream to a 39-tone HF modulation.. The PFE voice terminal integrates STANAG 4198/4197 and crypto in a single unit, with red-side analogue interface (plain) black-side analogue interface (encrypted); encryption/decryption outside the PFE voice terminal can only be done on a the terminal's digital interface that gives access to the STANAG 4198 (or	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
			STANAG 4591 / MELP) codec, and is not done in the Tx/Rx voice modems. However, digital voice here may also refer to other digital voice codecs (e.g., for Voice-over-IP) proposed by the bidder for use within the ACMS and Tx/Rx sites to meet other SOW requirements for voice services. In the context of this paragraph, remote analogue users may be aboard maritime platforms (or other deployed platform accessing the BRASS node). anywhere in the NATO Area or Responsibility.	
T.158	BOOK II PART I SECTION 1-SSS	In CLIN table as well as in IFB, there are predefined various 19" Racks with certain quantities. Please clarify whether it is possible for the bidders to propose different solution in terms of 19" Racks including quantities depending on its own system solution.	It is possible to propose different solution in terms of quantity of 19' Racks as long as proposal meets the contractual requirements.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.159	BOOK II PART I SECTION 1- (SSS)	In CLIN table as well as in IFB, there are predefined various 19" Rack Type UPS with certain quantities where for transmitters only Exciters will be connected to UPS. It was also specified that a large UPS capacity will be available for the 5kW transmitters under the scope of HN's local civil Contractor. Please confirm that additional UPS equipment are needed in addition to the large UPS only for exciters which are not standard products but need to be implemented by the Transmitter manufacturers' into the each transmitter.	Please see SOW paragraph 3.5.16.	No
T.160	BOOK II PART I SECTION 1- (SSS) 7.2	In CLIN table as well as in IFB, under the list of HARDWARE for RX Site at Galata (7.2), RCS LAN equipment are not listed. Please clarify that HARDWARE for RX Site at Galata in CLIN table has RSC LAN Equipment.	CLIN 7.2.5 will be added to the SSS as to read: RSC LAN	Yes, IFB AMD3
T.161	BOOK II PART I SECTION 1- (SSS) CLIN 5.2.5 CLIN 5.4.1 CLIN 5.4.3	In CLIN table as well as in IFB, under the list of HARDWARE for ACMS at Gorna Traka; Multiplexer (Intersite) (5.2.5), Black Voice Network (5.4.1) and Black Voice Switch (5.4.3) items are defined as separate equipment. Please clarify that bidders can propose different solution which has a Black Digital Switch (5.2.2) that can handle Multiplexer (Intersite) (5.25), Black Voice Network (5.4.1) and Black Voice Switch (5.4.3) equipments functions in one unit.	Confirmed. Bidders can propose different solution that can handle all relevant hardware in one unit as long as Bidder's solution meets contractual requirements.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.162	BOOK II PART I SECTION 1- (SSS) CLIN 5.4.2 CLIN 5.4.4 CLIN 5.2.1	In CLIN table as well as in IFB, under the list of HARDWARE for ACMS at Gorna Traka; Red Voice Network (5.4.2) and Red Voice Switch (5.4.4) items are defined as separate equipment. Please clarify that bidders can propose different solution which has a Red Digital Switch (5.2.1) that can handle Red Voice Network (5.4.2) and Red Voice Switch (5.4.4) equipments functions in one unit.	Confirmed. Bidders can propose different solution that can handle all relevant hardware/system in one unit as long as Bidder's solution meets contractual requirements.	No
T.163	BOOK II PART I SECTION 1- (SSS) CLIN 5.5.1 CLIN 5.5.2 CLIN 5.5.3	In CLIN table as well as in IFB, under the list of HARDWARE for ACMS at Gorna Traka; Distribution Unit (5.5.2) and GPS Receiver (5.5.3) items are defined as separate equipment. Please clarify that bidders can propose different solution which has a PTFS Main Unit (5.5.1) that can handle Distribution Unit (5.5.2) and GPS Receiver (5.5.3) equipments functions in one unit.	Confirmed. Bidders can propose different solution that can handle all relevant hardware/system in one unit as long as Bidder's solution meets contractual requirements.	No
T.164	BOOK II PART I SECTION 1- (SSS) CLIN 6.1.3 CLIN 6.1.4 CLIN 6.1.6	In CLIN table as well as in IFB, under the list of HARDWARE for TX Site at Asparuhovo; Audio Switch (6.1.3) and Data Switch (6.1.4) items are defined as separate equipment. Please clarify that bidders can propose different solution which has a Black Switch (6.1.6)) that can handle Audio Switch (6.1.3) and Data Switch (6.1.4) equipments functions in one unit.	Confirmed. Bidders can propose different solution that can handle all relevant hardware/system in one unit as long as Bidder's solution meets contractual requirements.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.165	BOOK II PART I SECTION 1- (SSS) CLIN 7.1.3 CLIN 7.1.4	In CLIN table as well as in IFB, under the list of HARDWARE for RX Site at Galata; Audio Switch for Remote Site (7.1.3) and Data Switch (7.1.4) items are defined as separate equipments. Please clarify that bidders can propose different solution which might have a Black Switch (7.1.1) that can handle Audio Switch for Remote Site (7.1.3) and Data Switch (7.1.4) equipments functions in one unit.	Confirmed. Bidders can propose different solution that can handle all relevant hardware/system in one unit as long as Bidder's solution meets contractual requirements.	No
T.166	Book II Part IV SOW 5.7.1	It was assumed that security accreditation process will be in English language only. Is it required to get security accreditation of "whole BRASS BGR system also in Bulgarian"?	Security Accreditation documentation shall be in English and Bulgarian language in accordance with SOW 5.7.1.	No
T.167	Book-I Bidding Instruction para. 4.4.9.l.i and 4.4.9.f.iii	Is Bidder required to provide preliminary SAP and STEP in Bulgarian language besides English?	No, Bidder shall provide preliminary SAP and STEP in only English in his proposal. However, all security accreditation documentation (including final SAP and STEP) shall be prepared in English and in Bulgarian language in accordance with SOW 5.7.1.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.168	Book II Part IV SOW 12.4.9.	In various sections of the IFB document, the BRASS BGR Contractor was required to implement the communication related equipment and had no requirement to modify the buildings. It seems like the application for the building permits shall be done by the HN's local contractor since the complete infrastructure, civil, electric and mechanical works are in their scope! Please clarify.	The installation of the antennae and all related equipment is Contractor's responsibility.	No
T.169	Book II Part IV SOW 12.4.11. 13.14.1**.**	The masts and equipment are going to be supplied by English manuals and those do not come in Bulgarian language. The training of the BRASS BGR also specifies personnel at HN with sufficient and certified English language skills. Besides it was also mentioned in SOW that all documentation should be in English language. Please clarify.	SOW paragraph 12.4.11 and 13.14.1 doesn't conflict. SOW paragraph 12.4.1 is related to Health and Safety (H&S) and SOW paragraph 13.14.1 refers to H&S. Documentation affecting Safety Hazard and health protection matters shall be delivered in both English and HN language – Bulgarian in accordance with SOW 13.14.1.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.170	SOW 14.5.4.b	It seems like the HN's Local Contractor's scope of work was mentioned in the training section which is not part of BRASS BGC Contractor's scope of work. Please clarify.	Agreed. SOW 14.5.4.b will be amended as follows: The training shall cover all aspects required to configure, maintain and trouble shoot the BRASS BGR System and any of its sub-systems (including BRASS dedicated NB ~~SB and~~ PSS, ~~BRASS dedicated HVAC and Fire Extinguishing System (FES)~~ DLOS antenna masts, aircraft warning Lights, lightning protection, and grounding at the ACMS site. It shall include as necessary control aspects for all hardware, firmware and software maintenance aspects.	Yes, IFB AMD3

T.171	CR T.72 Tree cutting requirements	It was mentioned in the several parts of the IFB document and also in CR that the BRASS BGR's Contractor is responsible for cutting the trees and related permissions. The separation of works for BRASS BGR and HN's Local Civil Contractor was defined as; Civil Contractor is responsible for preparation of antenna farm, access roads, cable trenches, manholes, excavation and leveling etc while BRASS BGR contractor is responsible for the antenna foundation works and erecting, installing the antennas. An example of the order of the works might be as follows; - After EDC, during the site survey, the locations of the antennas will be defined and agreed. - The access roads and cable trenches will be defined and agreed. - Civil contractor will start the works and will do above mentioned works which shall include cutting of the trees along the way to the antennas assuming that a truck and a crane shall have access for the antenna works. - BRASS BGR contractor starts building of the foundation blocks and installation of the antennas. In this process, it is assumed that local civil contractor will be dealing with cutting the trees because of the access roads, preparation of parking and maneuvering area near	Bidder's understanding is not confirmed. Cutting the trees are Contractor's responsibility. Please also see T.52; T.63 and T.72.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
		future antenna foundation locations in order to permit cranes and trucks to access the area. Another point is that rather than a foreign company who is specialized on communications and electronic systems trying to deal with local government organizations to receive permits, it might be much easier for the local civil contractor where such permits are required and handled for their scope of work. Please kindly reconsider the responsible party for ''permits of cutting the trees" since the cost and delays of such process cannot be estimated easily.		
T.172	CR T.31 .	The BRASS ICC is intended to operate new equipment however, IFB mentions existing equipment and antennas. It may not be possible to develop software drivers and interfaces for the existing equipment at HN. Please clarify whether only the new equipment under the scope of BRASS BGR would be connected to BRASS ICC.	Only new equipment to be procured under BRASS BGR shall be connected to BRASS ICC.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.173	CR T.34 Antenna feeders	Please clarify whether the feeders and cables of old antennas would be removed under the civil contractor's scope of work.	Only feeders and cables that belong to all old antennas that are to be dismantled will be removed. Feeders and cables of old antennas that will continue to exist will remain.	No
T.174	CR T.35 Rhombic antenna	Please clarify whether the rhombic antenna and related material and equipment would be removed under the civil contractor's scope of work.	The rhombic antenna and related material and equipment will be removed under the civil contractor's scope of work.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.175	CR T.48 Digital MTX	Please clarify whether digital matrix, data and antenna matrices in BRASS BGR would be connected to the new equipment, not to the existing equipment.	It is confirmed Digital matrix, data and antenna matrices in BRASS BGR would be connected to the new equipment, not to the existing equipment. Please also see T.48.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.176	BOOK II PART IV ANNEX-A PAGE 53, 64	Item 6.11.1. and item 6.12.1 states that "five (5) modems STANAG 4285 and 4539 as well as STANAG 4197 compliant; 1 time (1-NATO BCST, 1 National BCST, 2-S-S, 1-MRL); " and "three (3) voice RF modems compliant with STANAG 4197" **Q:** Crypto equipment generally have the capability of voice processing in accordance with STANAG 4197. In this context, is it necessary to do the voice processing on the modem in accordance with STANAG 4197 or pass it through the signal which is processed in TADPOLE crypto devices in accordance with STANAG 4197?	Crypto equipment does NOT generally have the capability of voice processing in accordance with STANAG 4197. And the voice processing standard is not solely STANAG 4197, which is an HF modem standard for LPC-10 voice interoperability, but includes STANAG 4198, which specifies the LPC-10 voice codec. TADPOLE is not a voice processing standard; it specifies a class of cryptographic algorithms. Please also see T.111	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.177	BOOK II PART IV ANNEX-A 5.1.2	The BRASS ICC software package will be delivered to the Contractor to adapt the software to the new hardware and system specific functions. Since it is not a requirement for the Bidders to work with the original developer company, for the Contractor it should be possible to further develop and adapt the delivered version of the BRASS ICC software. The source code and the help files should be delivered as a package to the Contractor. Please confirm that all the help files and documentation to further develop and adapt the BRASS ICC Software for BRASS BGR project which will be delivered to the Contractor is completely in English Language.	Confirmed. Current BRASS software (BICC software version 1.6) that has help files and documentation will be delivered to the Contractor only in English language.	No

T.178	BOOK II PART IV ANNEX-A 1.2.4.	Please clarify what is expected from the Contractor to "take necessary precautions to avoid risk of interference with other commercial, public safety or international users" and "unexpected interference" since the SOW does not require functions such as ALE, frequency hopping or anti-jamming methods to overcome such issues.	The requirement is confirmed. The interference referred to in this requirement consists in (transmit) interference generated by the BRASS BGR transmit site into other users due to excessive combined out-of-band/spurious emissions, (receive) interference from other users into the BRASS BGR receive site, (transmit-receive) self-interference between the BRASS BGR transmit site into the BRASS BGR receive site due to combined out-of-band/spurious emissions and/or lack of appropriate filtering. Necessary precautions include but are not limited to all SOW provisions for EMC/EMI, TEMPEST, Health and Safety Certifications.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.179	ANNEX C	The provided site drawings are only in estimated scale and do not match with the data provided on Google maps. Please confirm that the antenna farm layout, which will be a draft and approximate, to be based on the new drawings not the Google maps and those can only be finalized during and after the site survey after EDC.	It is confirmed. Drawings can only be finalized during or after site survey after the Contract Award.	No
T.180	BOOK II PART IV ANNEX-A 6.7.5.e	The SOW requires and additional isolator device between MPS and RSC which seems to have a function similar to an "ARQ isolator" in addition to the 3 each ARQ isolators between ARQ Processors and RSC. RSC only controls the equipment at black side and do not have interface to any other red device except 3 each ARQ processors. Please clarify where the additional isolator is planned.	Isolator requirement is clearly stated in the SOW Annex-A 5.2.5.a.iii; 6.1 (Figure-5); 6.6.15.b; 6.6.15.c; 6.6.15.e; 6.7.3; 6.7.4; 6.7.10. Please also see SOW Annex-A paragraph 6.7.10 c. for details about FAB sent from MPS to RSC.	No
T.181	BOOK II PART IV ANNEX-A PAGE 51, Item 6.10.6	Item 6.10.6.c. states that "The UPS shall provide a minimum of fifteen (15) minutes backup power in case the Prime Power Supply System fails." Item 6.10.6.h.iv. states that "Operating time with max load not less than 30 min" Please clarify how long UPS shall provide the backup power.	Please see T.122.	Yes, IFB AMD3

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.182	BOOK II PART IV ANNEX-A PAGE 64, item 6.12.1 and BOOK II PART I SECTION 1 PAGE 10	RSC LAN is a requirement for TX and ACMS site. But RSC LAN is not a defined requirement for RX site in the IFB. Could you please clarify the rationale behind this issue?	Please see T.160.	Yes, IFB AMD3
T.183	SOW Annex A 6.7.5.d; CR T.6	Two(2) RSC workstations are indicated however IFB-CO-13733-BRASS-BGR-AMD2 SOW Annex A Figure 5 shows total one (1) RSC workstations in ACMS and total three(3) workstations for BRASS RSC (one for ACMS, ONE for RX and one for TX), please can you confirm the required number of RSC workstations in each site?	The drawings of work stations in Figure-5 should be considered as 'Generic'. Regarding number of work stations, please see SOW Annex-A 6.5.3.c; 6.5.9; 6.7.5.d; 6.7.8; 6.11.1.i; 6.12.1.g as well as SSS CLIN 5.1.2; 5.3.3; 6.2.2 and 7.2.1. Both workstations at ACMS RSC (CLIN 5.3.3) should have the same software installed and should be connected to RSC network. One should play the role of the backup other.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.184	SOW Annex-C Appendix-1 7a2-Figure-2 (ACMS Building N11) CR, T.6	Please can you indicate which are the rooms usable for the BRASS BLACK equipment in ACMS?	BRASS BLACK equipment will be placed in room 017. In case room 017 is not sufficient for the equipment, part of it might be placed in room 016 together with ACMS and communication equipment.	No
T.185	SOW Annex A Figure 5; CR , T.29	Please clarify which are the available interfaces of the UAR represented in green color in figure (serial/IP)?	Please see T.134.	No
T.186	SOW Annex A 6.6.11.d.ii; CR, T.29	Please provide details about the protocol (IP or E1) of the NGCS interface	It can be established IP connection between PoP in Sofia and ACMS in Gorna Traka area. In addition, please see IFB SOW 3.5.2.	No
T.187	SOW Annex A 6.6.11.d.ii 6.6.11.d.i; CR, T.29	Please provide details about the local PABX interface	Please see T.149.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.188	SOW Annex-A 3.1; CR T.46	In Section 3.1 it is stated that "At both the Transmit and Receive Sites, the isolation between any two different antenna terminals shall be at least 30 dB, for any two physically separated antenna terminals, and 25 dB, for any two antenna ports belonging to the same multiport antenna, at maximum transmit power in CW." Existing antennas must be considered as part of this requirement? If yes, we need more information about these antennas (polarization, radiation pattern, etc.)	There are two microwave antennas with vertical polarization (DLOS) on each site (Rx and TX) Since the antenna field on the TX site was built back in 1960, NAVY does not have the required documentation. Please, take into account the answer to question 46.	No
T.189	SOW ANNEX-A 6.14.2.a.viii; CR T.68	It is required a DLOS with software product for monitoring and management compatible with software product "Provision" of "Aviat Network" company : can you please provide details of that software? Which are the supported protocols for integration of third party DLOS systems?	Software product for monitoring and management of DLOS – "Provision" by "Aviat Network" for DLOS "Eclipse" produced in 2015 or later.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.190	SOW ANNEX-A 6.14.2.b.i; CR, T.68	On referred paragraph is stated; "DLOS frequency range as defined for BGR MoD use: 7989-8129 MHz 8299-8439 MHz" but on your answer on question T.68 you specify: "Contractor shall choose the frequency band for the DLOS whereas the HN will obtain permission for specific frequencies." Please clarify if a different frequency range can be used for the DLOS links? Please can you specify any restrictions?8299-8439 MHz" but on your answer on question T.68 you specify: "Contractor shall choose the frequency band for the DLOS whereas the HN will obtain permission for specific frequencies."	Frequency specification: Frequencies of radio band and DLOS systems for frequency range 7,725-8,5GHz should be able to tune for each channel from frequency range according to recommendation ITU-R F.386-8-A2 and A3 and ECC(CEPT/ERC) (02) 06 A1.2.1. MoD Bulgaria will provide for use 7,9-8,4GHz by using 5,6,7 and 8 channels to establish DLOS connection.: In addition, typo will be corrected at the SOW Annex-A 6.14.2.b.	Yes, IFB AMD 4

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.191	SOW ANNEX-A 6.14.2.a.ii; CR, T.68	On BOOK II PART IV ANNEX-A 6.14.2.a.i is required a DLOS operating in the frequency range of 8 GHz but the channeling recommendation ITU-R F.636-3 is referred to fixed wireless systems operating in the 15 GHz band. Please clarify, which requirement take precedence?	(Please see T.190). Following amendment will be done at SOW Annex-A 6.14.2.b.ii: Chanelling: ~~ITU-R 636-3;~~ ITU-R F.386-8-A2 and A3 and ECC(CEPT/ERC) (02) 06 A1.2.1.	Yes IFB AMD4
T.192	SOW Annex-C Appendix-1 7a3-Figure-3 (Tx site CR, T.69	We noted a misalignment between the North direction indicated on this drawing and the real North. This may impact on the correctness of the Dipoles preferred direction and consequently on the RF Coverage Study. Please can you confirm the correctness of the Nord direction in the drawing according to the actual site area orientation?	North direction shown on the scheme is approximate. For determination of the exact North direction, it is necessary N and N-E pointers to be rotated about approximately 10 degrees clockwise. The Contractor should estimate the exact orientation of the Dipoles on site.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.193	SOW Annex A 6.10.6 a; CR: T.70	Shall battery packs for the UPS be redundant?	Confirmed, Battery packs for the UPS shall be redundant.	Yes, IFB AMD4
T.194	SOW Annex A Figure 5; CR, T.82	Please clarify how the orange "Z" is required to be connected to the Black Switch	Orange "Z" is NATO IP Cryptographic Equipment.	No
T.195	SOW Annex A Figure 5; CR, T.82	Please clarify which is the purpose of the chain: IP/Serial Converter – Router – Orange "Z" – Black switch	The purpose of this chain is to establish the serial connectivity from the NATO Allied Information Flow System (AIFS) to the MPS system in ACMS. The ACP 127 serial output of AIFS is converted to IP, encrypted and routed to ACMS where it should be decrypted and converted back from IP to serial.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.196	SOW Annex A Figure 5; CR, T.82	Are IP/Serial Converter – Router – Orange "Z" PFE equipment required for the Connectivity to the NATO General purpose Communications System (NGCS)?	IP/Serial Converter and NATO IP Cryptographic Equipment are PFE. Routers <u>are not</u> PFE and needs to be procured by Contractor. Please see T.134; SSS CLIN 5.1.3; CLIN 5.6 (5.6.1 and 5.6.2) as well as SOW Annex-A.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.197	SOW ANNEX-A 4.2.2. PAGE 14, Item "ARQ Software"	Item 4.2.2.b. states that ARQ software shall support full duplex operations. Some ARQ vendors have implemented a full duplex capability into their products. ARQ vendors have implemented their own solutions where the standard is not definitive. Vendors' own solutions have brought about interoperability issues. As for BICC software, it may require major modifications for full duplex implementation. Considering the abovementioned issues, could bidders offer half duplex ARQ servers?	As specified at many places of the SOW Annex-A, STANAG 5066 capability is a requirement for BRASS systems. Based on this, adaptive Mode in full duplex is a mandatory requirement as per STANAG 5066. As a result, full duplex functionality of STANAG 5066 protocol shall be implemented in the ARQ software by the Contractor in any case. Please also see SOW Annex-A 5.1.8 COTS table ARQ software Note-2. However, Bidders are free to propose any other ARQ COTS software as long as it meets the contractual requirements.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.198	SOW ANNEX-A 4.1.5. 4.1.6. 5.1.26 5.1.27.	Some vendors have end to end BRASS software solutions which are in full operational use and provide field-proven interoperability with other BRASS solutions. It is considered that using this COTS software is more practical and reasonable during the CLS period. Could bidders offer COTS BRASS software instead of modification of BICC software?	As long as all the software, technical and security requirements of the contract are met and the source code of the final software suit and other engineering documentation is delivered to the Purchaser at FSA, any (or whole) part of BICC (BRASS Initial Core Capability) software can be substituted. Any COTS product that is used currently by BICC software can be substituted by another as long as it has the required functionality (also in terms of security) and the BICC software is adapted to work with it. Please also see Book II Part II (Contract Special Provisions) Article 18.2 and SOW Annex-A 4.1.2.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.199	SOW ANNEX-A PAGE 23, Item 6.3.1	Item 6.3.1. says "The hardware (only workstations, monitors, displays and port cables) supplied for this project, shall meet the hardware specifications defined in SOW Annex-A Appendix-3." The total number of workstations in the project is 9. Five of them will be used in MPS network and they shall be TEMPEST. TEMPEST equipment vendors supply a few kinds of specific model workstations which may not fit the SOW Annex-A Appendix-3. Moreover, workstations defined in the SOW may be obsolete by CDR due to the fast-developing nature of desktop PC and monitor market. Could the SOW Annex-A Appendix-3 be removed from IFB?	No, SOW Annex-A Appendix-3 remains in force in the IFB package. Note that TEMPEST certificate is required for all peripherals and accessories delivered with a workstation. In addition, please see SOW Annex-A 6.5.14.h. In case of technology obsolescence, Bidders shall provide equipment with equal or better capacity, performance, interfaces and physical parameters while retaining backward compatibility. Specs in the SOW Annex-A Appendix-3 are minimum requirements except for maximum dimensions in form factor for the desktop which is a maximum spec. Therefore, the Contractor shall also take into account "Form Factor" aspects and it is the responsibility of Contractor to find appropriate hardware meeting the IFB requirements for the whole system.	Yes, IFB AMD4

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.200	BOOK II PART IV ANNEX-A Appendix-1 Section 3.5.7.f	Is it possible to investigate the influence of the dynamic wind react to the mast with Equipment in accordance with international rules like EIA/TAI Standard 222 G? The requested fundamental resonance frequency of the mast with equipment greater than 3Hz. Is reasonable only in very special cases of top loaded masts with mechanical-dynamical equipment like radar. The design of guyed masts and towers to support antenna structures in accordance with international Rules like EIA/TIA 222 G standard is state of the art.	Yes, EIA-TIA-222-G standard shall be used to calculate the axial forces (FAM), side forces (FSM), and twisting moments (MM) generated on the antenna structures according to the recommendations set forth in its Section C.2 and considering qz=1.004×V^2 [N/m2] (velocity pressure, [N/m2]; V=basic wind speed, [m/s]), Gh=1 (gust factor), and the coefficients contained in Tables C-1 through C-4 as a function of the proposed antenna and mast type and of the worst-case wind direction." .	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.201	BOOK II PART IV ANNEX-A 5.2.6	The VMSS shall be a voice network, unconnected with the MPS Local Area Network for security reasons: The item 6.5.11.iii requires that MPS shall interface with VMSS for "control data". Could you please explain what kind of interface is required and how it can be achieved without connecting to LAN? Are VMSS terminals required to connect to Message Terminals via RS-232 type of serial interfaces?	VMSS terminals are not required to connect to Message Terminals. Only Red Voice switch shall be controlled by MPS server. Please See SOW Annex-A 6.8.7.b; 6.8.8; 6.8.13 a.	No
T.202	BOOK II PART IV ANNEX-A 6.7.10; iii.	RSC is required to provide the connection to crypto voice pool. Does that specification contradict with 6.5.11.iii where such control function is provided via MPS?	It should be provided on both sides to be able to assign required voice crypto device to every voice circuit. Please See SOW Annex-A 6.8.13.	No
T.203	BOOK II PART IV ANNEX-A 6.5.9 a.	Under this paragraph, it was stated that Hardware solution for WSs shall be COTS based. There is another requirement under 6.5.14 of BOOK II PART IV ANNEX-A, where it is stated that MPS WS will either be certified as per SDIP-27 or installed in a shielded enclosure as per SDIP-27. We believe there is conflict between these two requirements, and kindly ask you to confirm that all the Red Zone equipment is certified as per SDIP-27 or installed in a shielded enclosure as per SDIP-27.	There is no conflict. All the Red Zone equipment shall be certified as per SDIP-27 or installed in a shielded enclosure as per SDIP-27. See SOW annex-A 6.5.14 and SOW 4.5 d as well as T.199.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.204	BOOK II PART IV Annex-A 1.2.3. g.	In accordance to paragraph 6.8.9 of BOOK II PART IV ANNEX-A Voice Terminals will be located at Red Zone (classified area). It was also stated that Red and Black network separation will be maintained via mechanical switch as stated under the same paragraph. Would you please clarify, that having black voice communication in RED zone will not cause any conflict to Security Accreditation?	The approval of Security Accreditation is the responsibility of the National Security Authority and the outcome cannot be predicted at this stage. It is the responsibility of the Contractor to analyse and provide solutions to entire satisfaction of the purchaser. Please see also SOW Annex-A 6.8.9 c.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.205	IFB-CO-13733-BRASS-BGR-AMD2 Bidding-sheets CLIN 5.1.9 and 5.1.10 CLIN 5.3.7 and 5.3.8 CLIN 6.2.4 and 6.2.5 CLIN 6.3.7 and 6.3.8 CLIN 7.2.3 and 7.2.4 CLIN 7.3.6 and 7.3.7 Clarifications, T.70	Shall every BRASS Tx, Rx and ACMS rack have its own redundant UPS?	Yes. Please see SOW Annex-A 6.10.6.a. Please also see T.193.	No
T.206	Appendix 2 to SOW Annex-C_ SPDP 1 h SOW Annex A 6.10.6 CR, T.70.	Shall UPS provide a minimum of fifteen (15) or ten (10) minutes backup power in case the Prime Power Supply System fails? Please clarify	Please see T.122 and IFB AMD3. Please also see SOW Annex-C paragraph 1.1.3.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.207	SOW Annex A 6.10.6 h i CR, T.70	Shall UPS for the equipment racks have three phase 400VAC input voltage? Please note that an UPS with three phase input and parallel operation will determine a model that has: - Oversized power for the rack power consumption High mechanical size that it can create space problem with other equipment in the rack	The requirement in the SOW ANNEX-A 6.10.6.h. remains. The Contractor shall find the solution to mitigate the risks to meet the contractual requirements.	No
T.208	SOW Annex A 6.11.7 f CR, T.70	Is UPS for the transmitter exciter in the scope of work?	Yes.	No
T.209	SOW Annex A 6.10.6 a CR, T.70	Shall the BRASS UPS be sized to include workstations and other peripherals/utilities?	Yes	No
T.210	Appendix 2 to SOW Annex-C_SPDP 1 m CR, T.70	Shall contractor provide a rack mounted manual bypass switch (for maintenance purpose) for each UPS in every BRASS RACK?	It is not a requirement. Please also see SOW Annex-C paragraph 1.1.3.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.211	SOW ANNEX-A 6.11.7.d. v.	In Book II Part IV (SOW) ANNEX-A 6.11.7.d bullet v., the PSK is specified as a mode of the HF Transmitter, while it is a waveform to be implemented by the external modem specified in para 6.11.5. Please confirm the PSK is required to the modems as specified in para. 6.11.5 and not to the HF Transmitters.	Please see 6.11.7.d.v ; 6.14.2 b.vi and 6.11.5.a. The HF transmitters and receivers must be capable of supporting PSK modes implemented by external modems.	No
T.212	SOW ANNEX-A 6.11.7.d.viii. PAGE 54.	In Book II Part IV (SOW) ANNEX-A 6.11.7.d bullet viii, for a load of 50ohm is specified a WSVR 3:1 max, while for this load the WSVR is 1:1. Please clarify.	The requirements remain the same. Contractor is responsible to meet the Contractual requirements and find mitigation measures to meet Contractual requirements.	No
T.213	SOW ANNEX-A 6.12.1.a,b,c, Figure 5 in para. 6.1	As specified in 6.12.1 bullet a the total number of receivers is five (5), while as specified in 6.12.1 bullet b and c the total number of modems are in a different number, i.e. eight (8). Besides, in figure 5 of BOOK II PART IV ANNEX-A para. 6.1 page 23 are specified eight (8) receivers. Please confirm the total number of receivers and modems requested.	For the number of modems in Rx site; please see SSS CLIN 7.1.2 and 7.1.6 as well as SOW Annex-A 6.12.1.b and c. For the number of receivers in Rx site please see SSS CLIN 7.3.1 and SOW Annex-A 6.12.1.a, Figure 5 is a generic drawing. However, it will be modified as to show 5 receivers in Rx site to avoid confusion.	Yes, IFB AMD4

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.214	SOW ANNEX-A 6.12.1.f. Figure 5 in para. 6.1	Figure 5 of BOOK II PART IV ANNEX-A para. 6.1 page 23 specify one (1) Wideband dipole, while 6.12.1 bullet f. specify three (3) Wideband Horizontal Dipole Antenna. Please specify the correct number of Wideband Horizontal Dipole Antenna.	For the number of Wideband dipole antenna in Rx site; please see SSS CLIN 7.3.4 and SOW Annex-A 6.12.1.f. Figure 5 is a generic drawing. However, it will be modified as to show 3 Wideband Dipole Antennas in Rx site to avoid confusion.	Yes, IFB AMD4
T.215	SOW ANNEX-A 6.11.1. d. 6.12.1.b.	What do you mean for “1 time" in the statement: “six (6) modems STANAG 4285/STANAG 4197 compliant; 1 time (1-BCST, 4-S-S, 1-MRL);"	It is related to one of the Operational Requirements. However, the term “1 time” will be deleted from the paragraphs 6.11.1.d and 6.12.1.b to avoid confusion.	Yes IFB AMD4
T.216	SOW ANNEX-A 6.6.11 d.i.	Please clarify what do you mean for “The Black Switch’s interface to the NDN is through the Local PABX” and detail the PABX interfaces characteristics.	Please see T.134 and T.149.	No
T.217	SOW ANNEX-A 6.6.11 d.ii.	Please specify the OSI level 2 NGCS interface to Black Switch.	Please see T.134; T.139; T.186; T.196.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.218	SOW ANNEX-A 6.6.14 b.v. 6.6.14 h	Please clarify the aim to use IP-to-serial converters for connectivity to NGCS.	Crypto equipment, which will be integrated for connectivity to NGCS in the ACMS, will consist of the following components: a) NATO IP cryptographic equipment; b) IP-to-Serial converters. Both are PFE.	No
T.219	SOW ANNEX-A 4.2.2.d. 6.6.8 e.iv..	Do the asynchronous/ synchronous serial communications to five locations (see paragraph 4.2.2 bullet d. Point to Point services) uses the crypto pool equipment? Which is the used crypto device? Are these the same "Other PtoP users" described at paragraph 6.6.8 e. bullet iv?	The asynchronous/ synchronous serial communications to five locations mentioned in 4.2.2 (also in 6.6.8 e) are for the future use. There is no crypto device assigned for the moment.	No
T.220	ANNEX A-1 to BOOK I - Bidding Sheets-	The Red and black routers described at CLIN 5,6 are not described in the System Requirements Specification and the System architecture diagram (Figure 5 PAGE 23, BOOK II PART IV ANNEX-A IFB AMD 2). Please confirm that their scope is limited to connect directly the NCGS to ACMS.	It is confirmed. Please also see T.134.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.221	SOW ANNEX-A 6.8.12.a	"A pool of crypto voice devices shall link the Red Voice Switch and the Black Switches, under the control of MPS Server Cluster". Please clarify the requirements of controls	The MPS operator shall be able to assign any available voice crypto to any voice circuit defined in the system. This should be identical to crypto assignment for other circuits in the system (BCST, MRL, Ship – Shore).	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.222	-	We would appreciate if you could help us in better defining the following contractual position of BRASS Bulgaria, confirm that: System Owner: After FSA the system will be handed over to NCIA that will take the ownership End User: Host Nation Bulgaria Will the system be ever owned by Host Nation Bulgaria? I need these clarifications in order to better identify with some vendors the regulations governing the export of equipment.	'As per Contract Special Provisions Article 18.2: The Title and Risk of Loss or Damages to all delivered/installed equipment, software (including source code) for the BICC Software, and documentation covered by this Contract shall pass to and vest with the Purchaser upon notification of Final System Acceptance (FSA) as defined in the SOW. Please consider that the Purchaser holds ownership title on behalf of NATO, as specified in Clause 30.3 of the Agency Contract General Provisions: All Foreground IPR is the property of the Purchaser on behalf of NATO. Consequently, no statement shall be made restricting the rights of the Purchaser in the Foreground IPR. Therefore, Owner and End User is NATO, final destination is Host Nation BGR.'	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.223	SOW 2.3.1.j.vi	What is the title of PIP 6? Is it Test and Evaluation or Test and Verification Plan (STVP)?	Bidders firstly shall take into consideration Book-I when they prepare their Bid. Title of PIP 6 is Test and Evaluation as specified SOW 2.3.7. STVP (Test and Verification Plan) is a part of PIP 6. SOW paragraph 2.3.1.j.vi will be modified accordingly but this modification will be reflected in the text of the SOW at the Contract Award.	Yes, IFB AMD4
T.224	IFB AMD 3 BOOK II PART IV ANNEX A 6.8.4 and 6.8.5 IFB-CO-13733-BRASS-BGR-AMD3 Clarifications T.149	"For achieving capabilities, as according to 6.8.4, 6.8.5 and 6.8.7 in SOW Annex-A, it is necessary that the Contractor provides an individual local PABX with a capacity up to 20 IP users /including a 20 port IP switch and 20 IP phone stations/. This PABX is not to be connected to existing phone network." Please provide CLIN relevant to required PABX, IP Switch and IP Telephone.	MPS LAN	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.225	IFB-CO-13733-BRASS-BGR Appendix-2 to Book II Part IV Annex B 16.4.3	Please confirm that X.400 is a mandatory requirement to perform the exchange of management information between the managing workstations or a COTS “no military” email application could be proposed.	COTS “no military” email application could be proposed as well.	No
T.226	IFB-CO-13733-BRASS-BGR Book II Part IV Annex A, para.6.5.9 bullet b.ii, page 28	Please confirm if the required voice-communications sets are mandatory. Please specify if these equipment are in addition to the ones provided for the red VMSS.	It’s mandatory and additional.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.227	Book II Part IV (SOW) 3.5.16, BOOK II PART IV ANNEX-A 6.5.3.f BOOK II PART IV ANNEX-A 6.7.5.f BOOK II PART IV ANNEX-A 6.11.1.k BOOK II PART IV ANNEX-A 6.12.1.i Clarifications: T.70 T.100 T.205 T.127	With reference to T.70 reply, Purchaser seems to lock down the quantities of the UPS equipment for each site; With reference to T.100 reply, Purchaser seems to lock down the quantities of the UPS equipment for each system; With reference to T.205 reply, Purchaser seems to lock down the quantities for each rack; As mentioned in T.127, UPS quantities stated by Purchaser prevent bidder to provide a solution compliant with the requirement SOW 3.5.16. Please confirm that UPS quantities shall be defined by bidders in order to ensure compliance with SOW 3.5.16 and to separate UPS systems for RED and BLACK equipment	All the BRASS equipment except for transmitters shall be connected to the BRASS dedicated UPSs as specified in SOW 3.5.16 by taking into account the redundancy matter as stated in T.205.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.228	Clarifications: T.70 T.158	With reference to T.158 bidder shall propose a suitable number of equipment racks for the system installation, however T.70 defines the quantities of UPS to be provided to supply the BRASS equipment/equipment racks. It is not clear the reason for Purchaser to define the number of UPS considering that the number of racks may vary according to the physical dimensions of the system equipment. Please clarify if bidder has the flexibility to define the quantities of UPS and equipment racks required to comply with the performance requirements defined in the SOW.	See T.227 and T.158.	No
T.229	Clarifications: T.205	With reference to T.205 Purchaser seems to require UPS to be mechanically installed inside the same equipment racks used by the systems equipment. This solution limits the available rack space and cable/wiring management. Please confirm that installation of UPS in dedicated UPS racks is acceptable.	The Contractor shall validate and install the UPS in accordance with UPS manufacturer's operational specifications.	No
T.230	SOW Annex – A 6.10.6.h Clarifications: T.207	Considering that some of the BRASS BGR racks will be under 1 kW power consumption and that market does not offers three phases UPS for 1 or 2 kW load (three phase UPS are available for loads above 10 kW), bidder is evaluating the option to provide a suitable and cost effective technical solution considering single phase UPS. In light of the above, the requirement 6.10.6.h should be integrated to specify that three phase UPS are mandatory for racks with power loads equal or above 10 kW	Contractor shall comply with requirements stated in SOW Annex-A 6.10.6.h as well as all other relevant specifications as defined in the SOW and its Annexes.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.231	BOOK II PART IV ANNEX-A 6.8.4 and 6.8.5 Clarifications: T.149	Purchaser requested an additional PABX to be included in the SOW. In case the Local PABX (PFE) shall not be used, please confirm that the answer to T.149 replaces BOOK II PART IV ANNEX-A 6.8.4 and 6.8.5	Existing PABX is not PFE as stated in T.149. However, SOW Annex-A 6.8.4 and 6.8.5 remain same in the IFB, for the time being. This matter will be discussed in detail with the Contractor and finalized during the Project Implementation phase.	No
T.232	CLIN 5.1.11 and SOW several points	Which level TEMPEST the equipment/cabinet should be for – Level A, B or C?	Equipment shall be installed according to NATO Tempest regulations..	No
T.233	SOW 3.4.4.X (AMD3) and T108	According to T108 and modification AMD3 to SOW 3.4.4.x the excavation of cable duct trenches is HN responsibility. Contractor then will lay the pipes and cables. But who finally will fill in and close the trenches?	Contractor	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.234	Clarifications No. T.52, T.171 etc.	According the tender documentation and the clarifications submitted, we understand that "cutting the trees" is the responsibility of the Contractor, in the same time, complete preparation of antenna farm, access roads, cable trenches, manholes, excavation and leveling etc. is the responsibility of the HN's Local Civil Contractor. We understand that once the contract of BRASS is awarded, the contractor has to start this preparation phase (After EDC and site survey) and then the HN's Local Civil Contractor involves in order to prepare the antenna farms. Since this intervention of host nation effects to the planning of BRASS project, we would like to know: **(1)** How long does "preparation of antenna farms" take by HN's Local Civil Contractor? While local civil company works, does our execution period stop? **(2)** Have this period of preparation already considered in the planning of BRASS project, if not, please consider a modification on the planning? **(3)** We also would like to know the estimated cost for the permits of cutting tree..	1) and (2): It is foreseen that preparation of Antenna farms by the Host Nation will not affect the project schedule. 3) At the moment, there is no fee for acquiring the permission, but, according to the Municipal Council Decision of Varna city, for every cut tree it is required that three saplings be supplied to the Municipality. The average cost of one sapling/tree could vary between 10-15 euro, but it is not fixed.	No

Serial NR	IFB REF	BIDDERS QUESTION	NCI AGENCY ANSWER	STATUS*
T.235	CLIN SUMMARY	CLIN 4.9.7 in Summary appears with no details about quantity, SOW references, etc. Please could you provide details on that CLIN?.	Details of CLIN 4.9.7 shall be considered the same as that of CLINs 4.9.3 through 4.9.6. Please note that quantity in those CLINs represent "lot" or "set". The number of students to be trained is clearly indicated in SOW paragraph 14.4.2.	No

A= Administrative/Contractual; P= Price; T= Technical

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