



The BACW's Bidding Commission hereby presents question made by companies with their respective answers.

**REMARK:** The questions presented in this "Questions and Answers" are numbered as they are answered by the Bidding Commission and may not match the numbering provided by the companies.

1. **Reference:** Basic Project **Question:** Please advise if, out of the sixty six (66) sites proposed for ADS-B deployment, specific sets of sites are expected to be contemplated by each of the four (4) Project Phases or if such definition will only be done during project delivery. Should a predefined deployment plan already exist, please kindly make this information available to Bidders.

**Answer:** *Each phase should cover certain airplanes. Proponent shall use Annex VI, which contains the 66 ADS-B stations, in order to meet requirements 6.10.1 to 6.10.4. For WAM sensors, the 8 possible sites are listed in Annex VII (additional sites, if proposed, should be taken into account).*

2. **Reference:** Basic Project **Question:** 1. On Q&A document published at BACW's website on Jun 27th, Attachment II of the IFB Document is said to be provided at pages 156 to 172. However the IFB document published at BACW's website does not go beyond Page 156 and no Attachment II is provided. Please verify it.

**Answer:** *It has been found that pages 156 to 172 refer to the draft contract, there is no document published on the website [www.cabw.org](http://www.cabw.org), annex II.*

3. **Reference:** Basic Project **Question:** 2. Once no technical visits to the sites proposed for deployment of ADS-B/WAM units have been planned prior to proposal submission, and taking into account Bidders' responsibilities for site infrastructure adjustments (as per Article 17.2 of Technical Specification), with the aim of allowing Bidders to efficiently account for infrastructure adjustments, would BACW please inform: a. Maximum existing distance to existing electric power (220 v / 60 Hz) Bidders may expect to encounter at deployment locations b. Maximum existing distance to existing access to communications network Bidders may expect to encounter at deployment locations

**Answer:** *There is no way to measure. The Bidder must take this into consideration when submitting his technical and commercial proposal. The site survey should be done after hiring, due to the large number of sites.*

4. **Reference:** Basic Project **Question:** 3. With reference to Article 15 of Basic Project 000.06.T03.PB.001.02 please advise whether a Consortium formed by Brazilian company and a foreign company shall be required to have a single Bank Account, or if separate payments to different Consortium members will be supported.

**Answer:** *The payment shall be made to the winning bidder in which the bank information shall be uploaded into BACW's management system (SISCAB). At this point, only one bank account can be registered to each contract.*



5. **Reference:** Basic Project **Question:** 4. With reference to Article 6 of Basic Project 000.06.T03.PB.001.02 please advise if technical manuals will be accepted in English Language.

*Answer: Any technical manual may be presented in English or Portuguese*

6. **Reference:** Basic Project **Question:** 5. Please advise if, the four deployment Phases defined in Article 6.10 of Technical Specification 000.06.T03.EP.001.04, contemplates predefined sets of locations where deployment should take place or if such correlation between Deployment Phases and specific sets of locations will only be made during project delivery. Shouls such correlation already exist, please make it available as this will help Bidders to more efficiently assess travel costs. (Question already submitted on July 1st)

*Answer: For the ADS-B sites, the 66 Stations are already defined, according to Annex VI of the Technical Specification. For the WAM sites, 8 possible sites were listed, according to Annex VII of the Technical Specification. Additional WAM sites, if proposed, should have the additional costs considered by the proponents.*

7. **Reference:** Basic Project **Question:** 1. We have just realized a new Invitation for Bid document has been uploaded to BACW's website – now with Draft Contract appended as Attachment II. Please confirm no changes have been introduced to the previous document.

*Answer: Correct.*

8. **Reference:** ESPECIFICAÇÃO TÉCNICA **Question:** To provide the WAM coverage service at these heights, more stations would be needed, many much more than the 8 stations proposed in the tender document (annex VII). Could you please confirm that we shall provide coverage at these minimum altitudes for each sector? If not, could you please state the minimum altitude for each of the volumes (1, 2 and 3)?

*Answer: The Wide Area Multilateration System (WAM) of the Porto Alegre Terminal Area MUST meet the minimum coverage volumes described in item 4.3 of the technical specifications. The list in Annex VII is for possible sites. Additional sites, if proposed, should be taken into account by each proposer.*

9. **Reference:** ESPECIFICAÇÃO TÉCNICA **Question:** The tender asks for compliance to environmental requirements that seems to be for indoor (chapter 18.1) and outdoor (chapter 18.2) conditions defined in existing standards (ED129).

Could you please state the number of sites for indoor and outdoor ADSB and WAM equipment to be installed? It impacts in the cost of the receivers.

*Answer: For ADS-B sites, proponents may consider that all 66 locations have refrigerated rooms (VHF / UHF Equipment Rooms). For WAM sites, tenderers should take into account the absence of refrigerated rooms/shelters. During the Site Survey, these issues will be refined.*

10. **Reference:** ESPECIFICAÇÃO TÉCNICA **Question:** Could you please confirm if it is mandatory to install LCMS for each ADSB site (a total of 66) or it could be enough to have an RCMS on each ADS-B (ADS-B System Processing Center) processing station? System does not need to be equipped with an LCMS at each site for a normal operation.



*Answer: According to items 7.9 (ADS-B) and 8.22 (WAM), for both Systems (ADS-B and WAM) should be delivered Local Monitoring Systems (for all sites) and remote (for all processing centers proposed).*

11. **Reference:** ESPECIFICAÇÃO TÉCNICA **Question:** Depending on the tower type and characteristics, It is not always possible to install an antenna in conditions to provide 360 coverage. Some towers can be made of concrete, or upper part may not be accessible and it's necessary to install at lower parts or side of the mast, leading to non 360º coverage. This can be solved by installing more than one antenna in these cases, to reach appropriated coverage. Taking into account during the bidding phase we were unable to perform the site survey, we kindly ask you to provide the number of sites where this situation can arise, it means, due to tower heights, concrete towers, tower occupation, the signal is blocked and it prevents a proper coverage. Otherwise, we will assume that 360º coverage is available in all towers.

*Answer: Due to the large number of sites, Site Survey was not proposed. The Site Survey should be done after hiring. In this way, proponents should take into account the possibility of using more than one antenna to obtain a 360º coverage.*

Notwithstanding, In accordance with the Invitation For Bid item 33.1, *Any doubts arising from the provisions of this Invitation for Bid may be the subject of consultation, in writing, to the **Bidding Commission** in charge of this bidding process..*

Based on that, the BACW's Bidding Commission reinforces that questions shall be submitted to [con@cabw.org](mailto:con@cabw.org) and no agents outside BACW should be copied in the e-mail. Thus, only answers published in BACW's website are considered official and part of the solicitation file.

Furthermore, the Brazilian Aeronautical Commission appreciates the question, and stands available to clarify and explain any doubts or concerns in order to increase the BID quality. Any questions or concerns must be submitted to [con@cabw.org](mailto:con@cabw.org)

*Note: This information has been made available at BACW website in the publishing for the related Bidding Process.*  
<http://www.cabwnews.com/index.php/solicitations.html>