

24 October 2019

Bid Bulletin No. 1
ITB-117-PHL-2019: Supply, Delivery, and Installation of a Secured High Frequency (HF)
Voice and Data Communication System in Maguindanao and Manila, Philippines

Dear All,

We are pleased to provide clarifications to queries we have received with reference to the abovementioned project.

No.	Clarifications from Bidders	UNDP Responses
1	Do you need secured voice communication in your HF Radio requirement? If needed, we need to provide HF Voice encryption module inside the HF radio unit. Programming kit should also be supplied for changing encryption code. Please clarify.	Secure communication is for data using the HF modem algorithm. For voice is normal SSB without prejudice to future encryption requirement in the future projects.
2	Based on the attached Specific Duties/Responsibilities under C. Scope of Work following queries are raised: a) Voice call and Data (Email) operation of the HF radio must be separately provided. Is this correct? b) Will you require HF radio for use with voice calling and/or at the same time use HF radio doing email? In case only one HF radio unit is already used for voice call, it cannot be used for email function or vice versa.	A. No. The same Hf radio will be used for voice and data. B. Yes, same radio for voice and data
3	#11 under Scope of Work: Perform frequency and spectrum assessment and analysis to determine interference and optimum operation of the radio set/system using industry accepted tools and software.	No. What is needed is frequency manager who will determine the most useable frequency (MUF) for HF anytime during the day, night and whole year. This is in congruent with

	Do we need to offer the ICOM Spectrum Receiver and accessories?	the frequency application for approval of NTC.
4	<p>#12 under Scope of Work: Provide a frequency manager with actual experience of the Mindanao set up frequencies for HF/V/UHF allocation with the approval of National Telecommunications Commission (NTC). A proper review of HF Terrain Analysis and Maximum Useable Frequencies (MUF) for HF for the whole year is required for voice and data-communications. A primary, secondary and admin frequencies for all bands is a must.</p> <p>Do we still need to provide this even if it can already be performed by the Spectrum Receiver that we will be proposing?</p>	<p>Spectrum analyzer doesn't determine the MUF for HF, but rather provides a visual representation of the spectrum in use.</p> <p>So, there is a need to have a frequency manager who will study, propose and implement suitable HF frequencies to ensure connectivity.</p>
5	<p>#13 under scope of work: 13. Setup HF email server and connectivity to commercial emails.</p> <p>This provision requires HF Email system with at least 3 or 4 HF radios on standby. We have undertaken HF Radio project with the PNP for more than 500 stations nationwide. But the email software provided is simple— one station to another station setup and this is not linked to the commercial email system. Please clarify.</p>	There is a solution to connect an HF email to commercial email providers such as gmail, yahoo and UN.org
6	Do you require HF radio operation at night time? Frequency at daytime is higher than at night time. In case there is night time HF radio operation your HF antenna must have suitable length and 65ft span may not be enough. Please clarify.	The HF radio operation is 24/7. The HF antenna tuner will ensure that frequency is matched to the electrical length of the antenna and not physical length.
7	<p>Under B. Specific Objectives: HF to UHF crossband requirement.</p> <p>Do we need to provide radio integrator?</p>	Integrated in the casing for a secure and neat setup. HF to UHF integration would be on future projects as enhancement.
8	<p>#4 under Works Required: 4. All equipment must be housed in a ruggedized case complete with proper electrical connection and wiring. Ample ventilation to prevent equipment overheating is required .. Additional fans should be installed as needed.</p> <p>This is not proper for HF radio to operate inside the ruggedized casing because it generates too much heat. May we suggest that the HF radio maybe housed in ruggedized casing for rapid deployment during transport from one site to another?</p>	<p>That is why ample ventilation is stated by installing additional exhaust fans for the radio.</p> <p>The deployment of radios are fixed. No need for transfer of equipment. It is housed in a ruggedized casing to protect the equipment.</p> <p>The email server is rack mounted and should be installed inside the rugged case.</p>

	<p>In case of deployment to another area, how is the provision for HF antenna be addressed? Should an extra HF antenna be provided?</p> <p>What about the email server unit housing inside ruggedized casing?</p>	
9	<p>It seems that the UHF base radios will not be able to cover the distances between sites as there is no UHF and HF integration mentioned. Only the HF radios are going to be able to cover that far distances. Please clarify.</p>	<p>HF will be used for long haul communications. UHF will be for short and tactical distances and not meant to connect different camps and stations.</p>

Please be advised that the deadline of submissions is **extended until 1 November 2019, 6:00PM Manila Time.**

Please be guided accordingly.

Thank you.