

Questions and Answers

ITB/FJI/JPN/003/20 – supply and installation of AM Broadcast System

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Date: 5 March 2020

Questions	Answers
Would you be happy for vendors to come up with a different type of an antenna such as bonded wire design?	<p>An alternate design may be acceptable subject to certain conditions:</p> <p>That the radiation performance is equal or better than a $\frac{1}{4}$ wavelength vertical radiator on a good ground plane.</p> <p>The requirement to withstand severe tropical maritime environments and severe tropical hurricane winds is met.</p>
Looking at the Wind conditions is it mandatory to have a window in the container.	Yes, we require window in the container as part of a ventilated containerized building. If air conditioning is duplicated, then it may be satisfactory to accept a container without windows. This reduces the possibility of rain leaking through window apertures in during hurricane conditions.
Would local regulatory require sign off of electrical work and structural work by local certified professionals?	Please refer to Annex 1 and Annex 2 for more details.
Are there any regulatory requirements to obtain Work visa for teams operating at site.	Please refer to Annex 1 and Annex 2 for more details.
Are there any requirement to obtain environmental impact assessments and approvals for building?	Please refer to Annex 1 and Annex 2 for more details.
Would FM transmission be operated alongside the AM station?	Yes. The same program source will feed both transmitters.
Would there be any remote controlling required for the transmitters?	Remote access is a technical features required.
Are vendors required to provide our own test plan for the equipment and the system or are there any mandatory KPIs that are required to be met	The Turnkey solution proposal should have its own KPI's that reflect the organization's central concept of the project and solidify project responsibility across administrative divisions. The bidder may present their suggested test schedule for approval.
Will you accept the generator on the same 40 ft container with a sound proofed partition wall as there is plenty of space for both FM, AM + emergency studio kit as well?	There will be substantial risk of vibration being transmitted through the container contributing to additional noise. It is desirable that the generator set be housed in a separate container.

What height is the VHF mast and how close to the new MW mast will it likely to be?	VHF Marine Tower is 100FT free standing (30.48M) and approximately 80 meters from the proposed AM mast
The document implies that the VHF mast will be moved from its current location close to the new facility however MW this does not appear in the SOW, will this be moved by others?	No, the FM antenna only will be moved from the existing location to the Marine Tower, the marine Tower will NOT be relocated.
How will the FM be kept on air during the mast move?	Hopefully once the AM is ON-AIR FM relocation will commence. The FM antenna will be relocated to the VHF Marine tower, VHF. Mast will NOT move.
Our main concern is the VHF mast being too close and coupling into the MW antenna causing pattern and matching changes, would it be better to mount the FM antenna onto the same MW tower using a FM iso-coupler?	The VHF Marine Tower is currently estimated to be almost 80M from the proposed AM Tower location. No advantage placing the FM antenna on the AM tower as there will be the added cost of the iso-coupler and there Marine tower will still be there.
Have done some approximate calculations based on a $\frac{1}{4}$ wave mast at 1584 KHz even over a sea path we are very doubtful that 0.5 mV/M ground wave signal strength level will be achieved at Tobi Island 600Km away it is likely to be less than 0.25 mV/m and very noisy if not undetectable. We believe this is not possible with this power, frequency and antenna design. We estimate it will be below half of this value. Please confirm.	With this calculation result, what do you propose to meet the requirement for the furthest Island? We intend to maximize the coverage to the furthest Island and therefore request this be part of the goal but it seems that the original installation using a $\frac{1}{4}$ wavelength tower and 5 kw transmitter did provide satisfactory coverage. The remote islands are essentially noise free areas except for atmospheric noise which will be primarily from thunderstorms.
Is there a statement of works for Annex 1 "other civil works"?	This will be a separate civil works. Depending on the design proposal from the bidder's turn-key solution such as those related to tower foundations, building foundations etc., and it is expected that the selected bidder will negotiate with local contractors for these works.