

By Speed Post/FAX

**PRASAR BHARTI (BCI)
DIRECTORATE GENERAL: DOORDARSHAN
DOORDARSHAN BHAVAN, COPERNICUS MARG,
NEW DELHI – 110 001.**

F. No 1 (3) 2008-09-EI-P (TV)

Dt. 08.04.2009

To.

M/s -----

Subject: Procurement of 500W (1+1) Auto Mode VHF and UHF LPTs.

Dear Sir,

The following enclosed Clarifications/Amendment to the specification no. DD/Tx/500W LPT (1+1)E-V/2008 dt.26.02.2009 are here by authorized.

It may be noted that the tender opening date for the subject tender has been extended. Now the tender will be opened on 30.04.2009 at 16.00 Hrs. The tender submission time will be at 15.30 Hrs. on 30.04.2009.

This is however without any commitment whatsoever at this stage.

Yours faithfully



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Copy for kind information
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Para No	DD specification and Clarification required	comments
2.10	<p>The transmitters at present will work in analog mode. It must however be Digital ready for operation in DVB-T standard. It should therefore have a provision for both Analog and Digital (ASI) signal inputs. It should be possible to change the mode of operation from Analog to Digital with suitable Hardware / Software. The bidder have to clearly spell out the Procedure for changing the Mode of Operation from Analog to Digital Operation in their offer. The quoted Transmitter must have the capability of operations in Analog as well as in Digital mode.</p> <p>The change of Operational Mode from Analog to Digital should be easily implementable at the site. DD may ask bidder for demonstration of the change over procedure required during the inspection. The bidder will provide technical specifications and performance Parameters that can be achieved by the transmitter in Digital mode However, Broad specs. for Digital mode Transmitter are provided at Para No 3.6 . The Single Transmitter output power in watts in Digital Mode may please be specified at the output of the Band pass filter against the 500W (peak Sync) Analog power of the quoted Transmitter.</p> <p>It is a mandatory requirement for deciding the technical suitability of the offered Transmitter system. All the Hardware / Software for operation in Digital mode is to be supplied along with the offer.</p>	<p>By using the same exciter for Digital as well as analog or two separate exciters, one for Digital and the other for Analog with each 500W transmitter with all connecting cables etc in the Transmitter rack.</p>
	<p>Are the manufacturers/ models given for various items in the BOM, only indicate or mandatory. In other words does a bidder have to offer one of the given makes or can we offer any make which is similar to the indicated one.</p>	<p>The manufacturers/ models given for various items in the BOM, are mandatory. The bidder have to offer one of the given make only.</p>

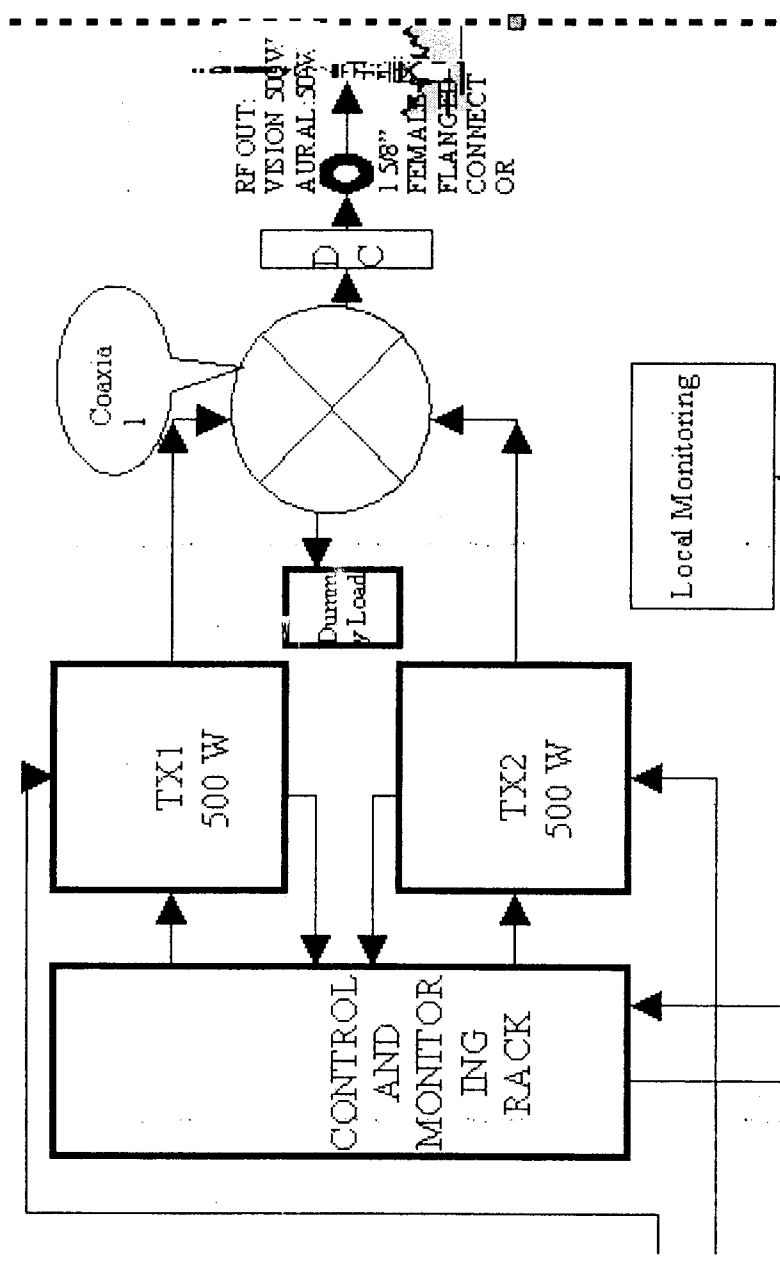
S. Sankar
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1.15	<p>The transmitter system quoted must conform to the latest international standards of safety and EMC. The conformance to such standards (indicating Standard's name & Number) must be stated in compliance statement. The transmitter manufacturer must be ISO 9001-2000 certified for the manufacturing of TV transmitters. Valid copies of ISO certificates should also be provided with the offer.</p>	<p>The transmitter manufacturer must be ISO 9001-2000 certified for the manufacturing of TV transmitters. Valid copies of ISO certificates should also be provided with the offer.</p>
2.3	<p>Each VHF/UHF Transmitter shall have its own synthesized exciter capable of operation in any channel (with off set facility) in the frequency band "174 to 230 MHz" for VHF band OR "470 to 860 MHz" for UHF band. The channel conversion should be possible at site without any change of component except output Channel filter. The exciter will be 100% solid-state and self-contained unit including regulated power- supply, base-band circuit, modulator, IF&RF Circuit & master oscillator. It will have full digital processing of the signal.</p> <p>The para requires the transmitter to have full digital processing of the signal. Please confirm that use of DDS (Direct Digital Synthesiser) will meet this requirement.</p>	<p>Each VHF/UHF Transmitter shall have its own synthesized exciter capable of operation in any channel (with off set facility) in the frequency band "174 to 230 MHz" for VHF band OR "470 to 860 MHz" for UHF band. For VHF transmitters with in VHF band and for UHF transmitters with in UHF band.</p> <p>With DDS it is difficult to confirm whether it meets the requirement with out going through the manuals. detailed study of circuitry and description</p>
3.1 (BOM)	<p>Dummy-Load 50 Ohms for 600W (Bird make, model 8401) with suitable connecting chord and reducer to connect with transmitter.</p> <p>Please clarify if it is a part of (1+1) automatic changeover system or a separate dummy load, in addition to the one used in (1+1) change over system is required</p>	<p>It is a part of (1+1) automatic changeover system. As shown in the attached diagram</p>
3.4(BOM)	<p>Patch Cords consisting of:- (a) Co-axial cable BNC to BNC please specify the length of the patch cords.</p>	<p>The length of the patch cords should be around 2(two) metres.</p>
3.5(BOM)	<p>Co-Axial cable assembly(N to N) Are these required for connecting the transmitters in (1+1) configuration or any other purpose.</p>	<p>It is to be supplied</p>

Randhu
B/H

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GFB