

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. 14.05.2009

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.

This is however without any commitment whatsoever at this stage.

Yours faithfully



**Preminder Singh
(Assistant Engineer)
For Director General
Tele/ Fax 23387620**

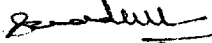
E-mail: - ddpurchase401@yahoo.co.in

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Modifications for 500W (1+1) Automode LPT specifications

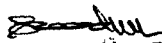
Para No	Existing DD specification	To be replaced as
1.1	The bidder must either be an original equipment manufacturer (OEM) of Analog and Digital transmitters or their authorized representative. The authorized representative must have been in the business of sales/ supply, integration or turnkey execution of broadcast <i>TV transmitter</i> projects and must have executed <i>similar orders in the past three years.</i>	The bidder must either be an original equipment manufacturer (OEM) of Analog and Digital transmitters or their authorized Dealer / Distributor. The authorized Dealer / Distributor must have been in the business of sales/ supply / integration or turnkey execution of <i>broadcast transmitter.</i>
1.2	Documentary evidence related to past supply of analog and digital TV transmitters as well as the Transmitter System similar to that being offered, as per the specifications in the following paras must be included with the offer. This is mandatory requirement and bidders with proven relevant experience of supplying Analog / Digital transmitters will only be considered. The address/Tel. No. to whom the Transmitter has been supplied must be provided with the offer.	Documentary evidence related to past supply of analog and digital TV transmitters as well as the Transmitter System similar to that being offered, as per the specifications in the following paras must be included with the offer. This is mandatory requirement and the OEM with proven relevant experience of supplying Analog as well as Digital transmitters will only be considered. The Postal address, E-mail address and Tel. No. to whom the Transmitters has been supplied must be provided with the offer.


S. Vaidyanathan
Dy. Director (E)



Clarifications for 500W (1+1) Automode LPT in response to M/s BECIL Lt no BECIL/DD/LPTs/Tender/2009 dt 2/04/09

Para No	DD specification and Clarification required	comments
2.3	<p>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><i>In order to have Full DSP in both analog and Digital it is required that during digital processing of the analog signals they are converted into digital baseband I and Q signals which are later converted directly to RF. Therefore the exciter will not have IF to RF circuit as mentioned in the specifications with refernce to spec 2,3 and 3.3.3, if carriers Vision 38.9 MHz and Aural 33.4 MHz please advice.</i></p>	<p><i>Exciter</i> should have full digital processing of the signal. If IF carriers Vision 38.9 MHz and Aural 33.4 MHz <i>as per spec 3.3.3 is not possible it can be relaxed. The Teransmitter once work as a analog transmitter, all parameters for analog transmitter must be measurable as specified in the specification</i></p>
	<p>Also confirm whether the synthesizer in the exciter should be DDS type</p>	<p>DDS type synthesizer in the exciter is also acceptable</p>
	<p>As per clarification issued on 8/4/09, It is understood that analog exciter also must be supporting digital signal processing, please confirm. Also in such case will it be required to offer one changeover unit for analog exciters and another changeover for digital exciters, please clarify.</p>	<p><i>Exciter</i> should have full digital processing of the signal.</p> <p>The changeover unit is required for switching between the two transmitters.</p>


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1.4

The TV transmitters are to be supplied as a "Complete System" as per suggestive Bill of Material given in Annexure-I. The transmitter system includes 1+1 air cooled TV transmitters, Racks, Cooling system, interconnecting cables, Control unit and Software, installation materials etc. For commercial/ technical evaluation purposes complete group of items of Annexure-I excluding optional items will be evaluated and part supply offers shall not be acceptable. It will be the responsibility of the tender to ensure that the system is complete in all respects.

It may be mentioned that present exciters available have full control of the transmitter from the exciter itself as it has large multi function display and integrated control unit. Separate control unit will have no role to play and will only increase the cost of the transmitter without giving any effective advantage. Also in case the control unit fails the whole transmitter will go down as it will have no redundancy. Please advice if a separate control unit is to be offered as part of the transmitter

2.4

The Transmitter system is required to be operated manually as well as from Remote location. It should therefore have provision of local display, keypad panels etc. for local operation and monitoring. All essential parameters and working status of modules should also be available locally. Detailed information on the parameters

Is the remote location required to be connected to the transmitter through LAN(RJ-45 connector) or through some other transmission medium, please advice.

Also in case a central technical control unit is set up in another city say Delhi, will it be required that both the remote control systems operate simultaneously with their respective WEB based GUI software on a PC, Please confirm

It refers to Transmitter control unit

Arrangement for by passing including the control circuit with details and diagram should be provided with the offer. Each 500W transmitter must have its own control unit. It can be separate one or combined with exciter but the details for by passing the control unit is required.

Yes the remote location is required to be connected to the transmitter through RJ-45 or USB or RS232

Either of the remote control systems operate with their respective WEB based GUI software on a PC, and not simultaneously