

By Speed Post/FAX

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

F. No 1 (4) 2009-10-EI-P (TV)

Dt. 02.03.2010

To.

M/s -----

Subject: Procurement of 10 KW UHF TV Transmitter with station items for Mehboobnagar (A.P).

Dear Sir,

The following enclosed Amendment to the Specifications no. Tx/ UHF/ 2009/ 1, 19.08.2009 is here by authorized.

It may also be noted that the tender opening date has been extended. Now the tender will be opened on 01.04.2010 at 1200 Hrs. The tender submission time will be upto 1130 Hrs. on 01.04.2010

This is however without any commitment whatsoever at this stage.

Yours faithfully



**Preminder Singh
(Assistant Engineer)
For Director General
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Modification in Specs No. Tx/UHF/2009/1, dated 19.8.2009

Annexure I (Suggestive Bill of Material)

Item No. 5.13 – Existing is as given below:

S. No.	Description	Make/Model	Qty
5.13	OPTIMOD STUDIO 6300 ST ORBAN		1

TO BE REPLACED WITH THE FOLLOWING:

S. No.	Description	Make/Model	Qty
5.13	Audio Processor- Specs Enclosed (Annexure X)	-	1

GP

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19/2/10
30/08/2009

PRASAR BHARATI
BROADCASTING CORPORATION OF INDIA
DIRECTOR GENERAL: DOORDARSHAN
DOORDARSHAN BHAWAN
NEW DELHI

ANNEXURE-X

SPECIFICATION FOR AUDIO PROCESSOR

1. Introduction.

Doordarshan requires a professional broadcast quality type 'Audio Processor' to be used in the input audio chain of it's 10kW/20kW VHF/UHF T.V. Transmitters.

- 1.1 It should be a high quality stereo/dual mono audio processor for analog television audio, but should have digital signal processing only.
- 1.2 The transmitters should be rugged, reliable and stable in operation under Indian tropical condition. The climate may vary from very cold to hot, humid & dusty.
- 1.3 It should provide at it's output sound with good loudness control as well as preserve the frequency balance of original sound while controlling subjective loudness.
- 1.4 It has to process audio available in the transmitter from a professional IRD (Satellite receiver) or a T.V. studio.
- 1.5 LCD/LED type meters on front panel for adjustment of parameters as well as for displaying required parameters for monitoring.
- 1.6 It should be a stand alone unit with built in tone generator for standard audio test tones upto 15kHz.
- 1.7 As the audio processor will be installed in very high R.F. field environment of 10kW/20kW VHF/UHF T.V. Transmitters, it should have proper R.F. Shielding.
- 1.8 The bypass test facility of the unit must be available.
- 1.9 The detailed technical specifications are provided below:

Technical Specifications of Audio Processor

Audio Processor must have the following specifications:

2. Analog Audio Input

- 2.1 **Configuration:** Stereo / Dual-Mono.
- 2.2 **Impedance:** > 10k Ω load impedance, electronically balanced.
- 2.3 **Nominal Input Level:** Software adjustable from -4.0 to +13.0 dBu (VU).
- 2.4 **Maximum Input Level:** +27 dBu.

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2.5 Connectors: Two XLR-type, female, EMI-suppressed. Pin 1 chassis ground, Pins 2 (+) and 3 electronically balanced symmetrical.

2.6 Processing: Digital Signal Processing (DSP).

2.7 Filtering: RFI filtered.

3 Analog Audio Output

3.1 Configuration: Stereo, Flat or pre-emphasized at 50 μ s.

3.2 Load Impedance: 600 Ω , balanced or unbalanced.

3.3 Output Level (100% peak modulation): Adjustable from -6 dBu to +24 dBu peak, into 600 ohm, software adjustable.

3.4 Signal to Noise Ratio: ≥ 90 dB unweighted (Bypass mode de-emphasised, 20 Hz-15 kHz bandwidth, referenced to 100% modulation).

3.5 L/R Crosstalk: ≤ -70 dB, 20 Hz-15 kHz.

3.6 Distortion: $\leq 0.01\%$ THD (Bypass mode, de-emphasised) 20 Hz-15 kHz bandwidth.

3.7 Connectors: Two XLR -type, male, EMI-suppressed. Pin 1 chassis ground, Pins 2 (+) and 3 electronically balanced, floating and symmetrical.

3.8 Filtering: RFI filtered.

4. General Parameters

4.1 Input Voltage: Single phase, 220Volt (rms) $\pm 15\%$, 50Hz.

4.2 Input Power Connector: IEC, EMI-suppressed. Detachable 3-wire power cord supplied.

4.3 Grounding: Circuit ground should be independent of chassis ground, and can be isolated or connected.

4.4 Safety Standards: As per latest international standards.

4.5 Operating Temperature: 0°C to 45°C for all operating voltage ranges.

4.6 Humidity: 0 to 95% RH, non-condensing.

4.7 Mounting: 19" Rack mounting, height must be specified by tenderer in RU.

4.8 RFI / EMI: According to latest International standards.

4.9 Weight: Must be specified by tenderer in Kg.

5 Guarantee: Two years from the date of receipt of equipment.

6 Documentary evidence of past supply record of similar type of equipment in the following Format must be provided.

Order No. with date, reference	Equipment, Make/ Model	Name of the broadcaster with full postal address to whom equipment is supplied.	Name, Telephone, Fax, Email ID of concerned personnel, purchaser, for getting feedback on equipment performance

7. The bidder shall, in the following format, provide the address and contact information for after-sales-support of the equipment.

Name of Equipment with model No.	OEM	After sales & support office address	Name, Telephone/ Fax/ Email of concerned personnel	Authorization by the OEM for supply and after sales support of the equipment

8. The original pamphlets, data sheet, specs sheet of the equipment should be attached with the offer.

9. COMPLIANCE:

A point by point compliance statement in respect of all the parameters laid down in above paras from 1 to 8 of the specifications is to be enclosed with the offer in the format given below from the OEM's letter head duly signed on all pages by OEM's official not by the representative/agent of the manufacturer with the relevant supporting literature, manual etc. **Any deviation from the specifications should also be highlighted separately.** Offers without compliance statements as desired are likely to be rejected without reference to the tenderer.

(125) 220

SPEC NO. AP/TX/UHF/2010/1
DATED 19.02.2010

Sr. No. of DD specs.	DD specs	Compliance (Yes/No)	Performance Fig. of eqpt. offered.	Deviations, in case of non-compliance	Optional items if any reqd. to make the sys. Compliant to DD specs.	Features in the sys. Offered which exceed DD specs.
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