

PRASAR BHARATI
(BROADCASTING CORPORATION OF INDIA)
DIRECTORATE GENERAL: ALL INDIA RADIO
(P&D UNIT)

SPECIFICATION FOR PROFESSIONAL CD PLAYER

1. GENERAL

This specification is for Professional C D Player to be used for broadcasting purposes in All India Radio at various stations. The C D Player shall be robust and highly reliable for continuous 24 hours operation throughout the year.

The tenderer must submit following documents along with the tender document:

- (i) **A point-to-point compliance statement as per annexure-I on all the clauses of specification from the manufacturer of the offered equipment duly signed in original. If compliance statement is in format other than Annexure-I, the tender will be rejected out rightly.**
- (ii) **The quote should either be from the manufacturer or from their authorized agent. In case the quote is from the authorized agent, a certificate from the original manufacturer that the tenderer is authorized agent for India should be enclosed with the tender.**
- (iii) **Detailed printed literature of the equipment giving complete electrical and mechanical data including detailed dimensions and mounting requirements.**
- (iv) **One set of operational manual.**
- (v) **Details of Service Centers in India.**

1.1 The tenderer may be required to demonstrate the complete functioning of the tendered unit at the time of technical evaluation in New Delhi. Non-compliance of equipment-demonstration shall disqualify the tenderer.

1.2 Incomplete tenders are liable to be rejected without any notice to the tenderer.

2. Salient Features

CD Players of professional grade with following salient features:

- 2.1 Front loading of CD with soft eject mechanism.
- 2.2 Fader-start facility with indication
- 2.3 Provision to enable or disable the fader start
- 2.4 Provision for operation in Play, Stop, Pause and Cue mode with status indication
- 2.5 Standby mode of operation
- 2.6 Auto Cue of the track
- 2.7 Fast cue within a track
- 2.8 Auto stop at the end of the track
- 2.9 Disc error indication
- 2.10 Display of current status, TOC (table of contents), elapsed time and remaining time
- 2.11 It shall support CD_Rs as well as CD_RWs.

3. TECHNICAL SPECIFICATIONS

3.1 Line Outputs

Analogue : Balanced Stereo L & R outputs on 3-pin XLR Connectors with provision for Mono output

Digital : AES/EBU format on 3-pin XLR Connector

3.2 Line Output Level (Analogue)

Nominal : +4 dBu with built-in level control

Maximum : $\geq +18$ dBu

3.3 Analogue Line Output Impedance: ≤ 150 ohms

3.4 THD+N : $\leq 0.02\%$ at max. specified output over 20Hz to 20 KHz

3.5 Frequency Response : Within ± 1.0 dB over 20Hz to 20 KHz

3.6 Signal to Noise Ratio : ≥ 80 dB at nominal output level

3.7 Channel unbalance : ≤ 0.5 dB

3.8 Channel Separation : ≥ 75 dB at nominal level at 1 kHz

3.9 Sampling Frequency : 44.1 KHz

3.10 D/A Conversion : ≥ 16 bit

- 3.11 Headphone Monitor Output : Stereo with level control
- 3.4 Monitor Output level : ≥ 15 mW
- 3.13 Mounting : 19" Rack Mountable

4. POWER SUPPLY

The CD player shall work on 230 V $\pm 10\%$, 48-52 Hz A.C. supply. The power supply unit of the CD player shall be protected against overload, short circuit and over-voltage etc.

5. INSPECTION

The inspection (including audio, electrical and mechanical measurements) of equipment will be carried out at the manufacturer/ supplier's premises at their expense. All the necessary equipment for carrying out the inspection will be arranged by the manufacturer/supplier.

6. ACCESSORIES

Each CD Player shall be supplied with following accessories:

- 6.1 Power cord - One no.
- 6.2 Mating connectors - One complete set.

7. PERFORMANCE DATA

Each CD Player should be supplied with Test data sheet of performance measurements from manufacturer.

8. AFTER SALE SERVICE SUPPORT AND SPARES

- 8.1 Essential and recommended spares shall be quoted separately. The list should include name and part no. of the parts/components with quantity and unit cost.

The cost of these items shall not be considered for ranking of the bid.

- 8.2 The tenderer shall ensure availability of spares and after sale service support in India for the quoted equipment for a period of at least **five years** from the date of supply of last equipment.

9. ENVIRONMENTAL CONDITIONS

The CD player shall perform satisfactorily in the dry temperature range of 5⁰C to 35 ⁰C and humid conditions up to 85% RH. A test certificate in this regard shall have to be produced from the manufacturer.

10. TECHNICAL LITERATURE

One set each of operation manual and maintenance/servicing manual shall be supplied with the each CD player. One complete set shall be enclosed with the tender documents.

11. GUARANTEE

The equipment shall be guaranteed for satisfactory performance and against all manufacturing defects for a period of one year from the date of supply. Servicing facilities shall exist within India.

ANNEXURE-I

S.No.	Para no. of AIR specification	Tenderer's response		
		Complied (yes/no)	Actual parameters of the offered product	Remarks

(H.K.Bharani)
Dir. Engg. (MR)

(J.M.Jain)
Dir. Engg. (SD)

(A.K.Jain)
Suptg.Engineer (BH)

(A.Shanmugam)
Dir. Engg. (IT)