



प्रसारभारती / PRASAR BHARATI
भारतीयलोकसेवाप्रसारक/ INDIA'S PUBLIC SERVICE BROADCASTER
अपरमहानिदेशक(अभि.) (द.क्षे) कार्यालय/ O/o. ADDL. DIRECTOR GENERAL (E)(SZ)
आकाशवाणीएवंदूरदर्शन / ALL INDIA RADIO & DOORDARSHAN
स्वामीशिवानंदासालै, चेन्नई / SWAMY SIVANANDA SALAI, CHENNAI - 600 005

No. ADG(E)(SZ)/SMS/IEBR/METP/25-26/

Date: 01.08.2025

Sir/Madam,

SUB: Request for Budgetary Quotation for one professional IRD receiver for the attached specification.

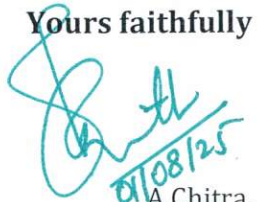
Quotations are invited for one professional IRD receiver

Sl. No.	Particulars	Qty.
1.	Procurement of one professional IRD receiver	1 job

- 1) **GUARANTEE / WARRANTEE:**
One year from the date of supply of material.
- 2) **Payment terms** :100% payment on testing of item.

Quotations may be addressed to : Smt. A.Chitra, Director(E), O/o Additional Director General(E), Akashvani & DD, Swamy Sivananda Salai, Chennai - 600005.
and by Email to : diravm_sz@yahoo.com & airmaintenance.sz@prasarbharati.gov.in

Yours faithfully


A.Chitra,
Director(E),
for ADG(A&BO)(E)(SZ)

SPECIFICATION FOR IRD RECEIVER

1. SCOPE:

The specifications lay down the performance measure of broadcast quality Integrated Receiver Decoder to be used in AIR network for decoding Satellite channels and capable of 24 X 7 hrs operation confirming to the specifications given.

2. ESSENTIALFEATURES:

- a) The IRD should have a front panel display and one should be able to enter or edit all the parameters for reception of the signals/ decoding of audio and data etc.,
- b) There should be provision for observing the BER / signal and signal level in the front panel.
- c) The equipment shall have capability to receive/decode audio only.
- d) The equipment shall also have the capability to present each analog audio output as stereo pair.
- e) In the event of "Mono" transmission, mono input channel shall be available to both left and right connectors as encoded at Transmission end.
- f) In other modes ("Stereo" and "Dual Mono"), the two channels shall be available as left and right as encoded at Transmission end.
- g) The offered system should facilitate we/browser based monitoring and standard SNMP-based network management systems.
- a) The offered equipment should be from an internationally reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters.
- b) The bidder should essentially submit the list of the broadcasters to whom the quoted model has been supplied.
- h) Any substandard equipment included in the offer may cause the rejection of complete offer with the sole responsibility of bidder.
- i) The tenders without proper user list shall liable to be rejected.

S. No	Parameter	Specification	Tenderer's compliance (Numerical value to be given)
A - INPUT CHARACTERISTICS			
1	Input frequency range	950-1750MHZ	
2	No of inputs	1 No	
3	Tuning step size	1kHz	
4	Input impedance	75ohms	
5	Input connector	F-Type female	
6	Input power range	-30dBm to -65 dBm	
7	Noise figure	20 dB or better	
8	De-Modulation	QPSK	
9	Symbol rate	128 kilo symbol/sec to 10 Mega symbol/sec	
10	Convolution inner FEC	DVB-S-1/2, 2/3, 3/4, 5/6, 7/8 DVB-S2- 1/3, 2/5, 1/2, 3/5, 2/3	
11	IF Filter bandwidth	Automatic Selection (dependent on symbol rate)	
12	Audio decompression/decoding	MPEG-II and MPEG-IV, AAC	

B: OUTPUT CHARACTERISTICS			
1	Audio output	Analog and digital AES/EBU at 44.1 & 48kHz sampling rate	
2	Number of audio outputs	Four (4) Stereo, configurable as stereo or Dual mono	
3	Connector type	XLR Male socket or with suitable adapter	
4	Output impedance	600 ohm (Balanced) and 110 ohm	
5	Transport stream O/P	ASI on BNC	
6	Data rate per channel	64-256 kbps (MPEG-II AND MPEG-IV, AAC)	
7	Peak output level		
	Analog	+8 dBm into 600 ohms balanced or higher	
	Digital	-10 dBfs or higher	
8	Frequency response	± 0.5dB or less, 20Hz to 15kHz	
9	THD	1% or less	
10	Cross talk	60dB or higher isolation between L & R	
11	Signal to noise ratio	60dB or higher	
12	Output voltage	18V DC through central conductor of RF F-connector in receiver	
13	Power supply	230V ± 10% AC single phase	
C: ENVIRONMENTAL			
(i)	Temperature	0° to 45° C	
(ii)	Relative Humidity	90% non condensing	