





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

No. ADG(E)(SZ)/SMT/IEBR/METP/24-25/

Date: 14.02.2025

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 : Shri. N.Ravichandran, Deputy Director(E), Room No 306, 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

Director(E) for ADG(A&BO)(E)(SZ)

5.0	<b>PROFESSIONAL IRD RECE</b>	IVER Specifications:			
	Tenderer shall quote for professional grade good quality field proven L – Band digital				
	receiver capable of 24 x 7 Hrs. operation conforming to following specification. The IRD				
	shall have front panel display and capability for entering / edit etc. of all the parameters				
	for reception of the signals/ decoding of audio and data etc The equipment shall have				
	provision for monitoring BER / Signal level on the front panel display.				
	The equipment shall have capability to receive /decode audio only. The equipment shall				
	also have the capability to present each analog audio output as a stereo pair in the event				
	of 'Mono' transmissions, Mono input channel shall be available to both left and right				
	connectors as encoded at Transmission end. In other modes ("Stereo" and "Dual mono")				
	the two channels shall be available as Left and Right as encoded at Transmission End.				
	The IPD Should have a front nanel display and one should be able to enter or edit all the				
	The IRD Should have a front panel display and one should be able to enter or edit all the				
	parameters for a perfect reception of the signals. There should be provision for observing				
	_	the BER of the signal and signal level on the front panel. It will be required for receiving			
	audio signal only				
1	RF Parameter Specificatio	940-1750 MHz			
1	Input frequency Range	1 No			
2	No of Inputs -	1 NO 1kHz			
	Tuning step size	C and Ku Band –selectable			
4 5	Satellite Frequency Band	75 Ohms			
6	Input Impedance Input Connector	F type female			
7	Out put Connector	XLR for Analog & AES-EBU or Break – out box with XLR			
8		30 to -65dBm per carrier			
9	Input power range De modulation method	DVB-S QPSK, DVB –S2 QPSK modulation			
10	Variable symbol rates	256 symbols/sec to 10M symbols/sec			
10	Convolutional Inner FEC	R=1/2,2/3,3/4,5/6,7/8(DVB-S, QPSK)R-			
	rates selectable	1/3,2/5,1/2,3/5,3/4,4/5,5/6,8/9 9/10 (DVB-			
12	IF Filter Band width	Automatic selection( Dependant on symbol rate).			

	The IRD offered	Should be able to receive both SCPC and MCPC signal, IRD shall be able to receive free to AIR			
		Doordarshan's DTH radio signal.			
	Audio Compression Parameters (48 kHz sampling rate)				
	Audio compression type	MPEG-1 Layer II Audio (Dual mone,stereo) MPEG -4 with AAC, AACLC & AACHE v1 &v2			
	Analog Audio Output				
	Each analog audio output shall be presented as a stereo pair in the event of 'mono' transmission,as the same encoder input channel side will be output to both left and right connector				
	Analog audio output specifications				
1	Output Impedance	600 Ohms (balanced)			
2	Number of outputs	4 Stereo, configurable as stereo, joint stereo, mono, dual			
		mono			
3	Connector type	XLR male socket or with suitable adapter			
4	Data Rate	64-256 kbps(MPEG-1 Layer 2 and MPEG -4 selectable)			
	Audio performance specifications (at 48 KHz sampling rate)				
1	Frequency range(analog)	50 Hz to 15 KHz +/- 0.5 dB			
2	THD+N (1 kHz at max.level)	0.1% from 50 Hz to 15 KHz			
3	Dynamic range	Better than 80dB			
4	Cross talk at 1 KHz	Better than 80dB			
5	Signal to Noise Ratio	Better than 80dB			
	The IRD offered should be al free to AIR Doordarshan's D	ble to receive both SCPC and MCPC signal, IRD shall be able to receive TH radio signal.			