



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: 27.09.2024

Sir/Madam,

Sub: Request for Budgetary Quotation for procurement of one 6KW PA for 10KW DBE FM Transmitter

Quotations are invited for **procurement of one 6KW PA for 10KW DBE FM Transmitter**

Sl. No.	Particulars	Qty.
1.	Procurement of one 6KW PA for 10KW DBE FM Transmitter as per the specification attached.	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

Yours faithfully

27/9/24
N.Ravichandran
Deputy Director(E)

6000W Power Amplifier specifications

RF Specifications	
Operating frequency range	87.5÷108MHz.
Max. output power	0-6000 W
Input power	50 W
Input connector	N
Output connector	EIA 7/8" (other on request)
Input and output impedance	50Ω
Spurious and harmonic suppression (ref. to carrier)	< - 80 dBc
Synchronous AM (ref. 100% mod.)	< - 50 dB
Asynchronous AM (ref. 100% mod.)	< - 55 dB
RF Probe	< - 50 dBc, 50Ω BNC
Power stability	< 5%

Measures (on the front panel)
- Output forward and reflected power
- DC supply voltage of each RF board
- Drawn current of each RF board
- Heatsink temperature
- Amplifier efficiency

Protections from:
- VSWR (hardware and software)
- Air over-temperature or insufficient cooling
- Fault of RF or power supply stages (foldback protection)
- Missing ENABLE command on the rear panel or from the control logic unit
- Warning RF -3dB
- Warning unbalance

AC Power requirements	
Type of DC voltage regulation	Direct AC/DC switch-mode
Operating Voltage	220/240 Vac ± 10%Vac 50/60 Hz, single-phase. Or 400Vac three phase 50/60 Hz ± 10%

Operating conditions:	
Cooling	Forced air by internal fans
Service	Continuous 24/24 h
Operating temperature	-5 ⁰ ÷ +45°C Derate 3°C per 500m above 1000m asl
Relative humidity	95%
Max. installation altitude	3000 m a.s.l.