PRASAR BHARATI
(INDIA's PUBLIC SERVICE BROADCASTER)
O/o ADDITIONAL DIRECTOR GENERAL (E) (WZ)
ALL INDIA RADIO & DOORDARSHAN
P.B. ROAD, WORLI, MUMBAI-30.

सत्यम् शिवम् सुन्दरम्

File No. ADG(E-WZ)/AIR-P/30KVA_AVR_For_KANKER_BAILADILA_NARAYANPUR/2026-27 Dated:25/05/2026
Computer No. 338005

Subject: - Invitation of Budgetary Quote for the procurement of **"3 Nos. of 30 KVA, capacity, Servo motor controlled, air cooled, 3-phase, 4-wire, 50 Hz Automatic Voltage Regulator (AVR)"** for 5 KW FM Transmitters at 03 sites of Akashvani at Akashvani Kanker (C.G.), Bailadila (C.G) and Narayanpur (C.G.) in West Zone as per details in the Budgetary Quote Form.

1. The budgetary quote form of the upcoming tender is enclosed herewith to offer quotations, from prospective bidders/firms with budgetary quote.

2. Bidders/firms may please submit the above details/their quote on or before date 08-06-2026 by e-mail to ***rsbhamare@prasarbharati.gov.in*** and ***mumbai.airproject@gmail.com*** or at following address.

Smt. Ratna S. Bhamare
Assistant Director Engineering
O/o Additional Director General (E) (WZ)
Akashvani & Doordarshan, 3rd floor, A.O.A building,
Doordarshan Complex, Worli, Mumbai – 400030
Mobile No.: 7021827166
e-mail id: ***rsbhamare@prasarbharati.gov.in,***
mumbai.airproject@gmail.com

Due Date to submit quotation: 08/06/2026

Enclosed:

1. Budgetary Quotation form of the upcoming tender is enclosed herewith.

2. Technical Specification at Annexure-1 of 30 KVA capacity, Servo motor controlled, Air cooled, 3-phase, 4-wire, 50 Hz Automatic Voltage Regulator (AVR).

3. General terms and conditions and salient features at Annexure-2.

25/5

(Ratna S. Bhamare)
Assistant Director (E)
For Add. Director General (E), WZ
MUMBAI

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Computer No. 338005

Subject: - Invitation of Budgetary Quote for the procurement of **"3 Nos. of 30 KVA capacity, Servo motor controlled, Air cooled, 3-phase, 4-wire, 50 Hz Automatic Voltage Regulator (AVR)"** for Akashvani Kanker (C.G.), Bailadila (C.G) and Narayanpur (C.G.) in West Zone as per details in the Budgetary Quote Form.

Last date of receipt of budgetary quotation in this office: 08/06/2026 up to 15:00Hrs.

Please read carefully the terms and conditions given the enquiry quotation form and Specifications Enclosed.

Sr. No.	DESCRIPTION / SCOPE OF WORK	Qty. per Station	Total Qty.	RATE	AMOUNT
1.	30 KVA capacity, Servo motor controlled, Air cooled, 3-phase, 4-wire, 50 Hz Automatic Voltage Regulator (AVR) (as per Technical Specification at Annexure-1) with **3-years warranty** for three Akashvani sites at Akashvani Kanker (C.G.), Bailadila (C.G) and Narayanpur (C.G.).	1	3		
				Total	
				CGST	
				SGST	
				IGST	
				Grand Total	

Note:

1. Consignee: Installation officer, Akashvani three Akashvani sites at Akashvani Kanker (C.G.), Bailadila (C.G) and Narayanpur (C.G.).
2. The bidder must be experienced in same kind of work.
3. Technical Specifications (Annexure-1), General terms & conditions and salient features (Annexure-2) of the item to be procured is attached with this form, filling the budgetary quote specifications should be considered extensively
4. Supply has to be done as per the terms and conditions in upcoming tender documents.
5. Validity: 120 Days

Name (in capital) _____

(Seal & Signature of the Bidder)

Annexure-1

REQUIRED TECHNICAL SPECIFICATIOS FOR 30 KVA AVR:

Sr. No.	TECHNICAL PARAMETERS		REQUIRED TECHNICAL PARAMETERS	Complied / Not Complied (To be filled by firm)
1.	**Capacity of AVR**		30 KVA (continuous)	
2.	**Input / Output voltage**	2.1) Input voltage	320 V to 480 V A.C. Three phase 50 Hz, 4 wire	
		2.2) Output Voltage	400 V +/-1% A.C Three Phase 50 Hz. (230 volts Phase to neutral), voltage shall be adjustable to +/-5% with control located on front panel.	
		2.3) Voltage Regulation	+/-1% from no load to full load.	
		2.4) Frequency	AVR should work satisfactorily with input frequency range of 50 Hz, +/-6%.	
		2.5) Distortion	It should not introduce any output distortion.	
		2.6) AVR Type	Indoor, free-floor standing, servo-controlled or any other state-of-the–art technology (sensing and control details to be indicated) with individual phase sensing and control for regulating unbalanced incoming voltage and suitable for unbalanced loads. The unbalance in load can be of the order of 50% of rated load. The output voltage stability with this unbalance (up to 50%) should be within +/-5% of the Nominal output voltage.	
		2.7) Speed of correction	Minimum 15 volts/second or better.	
		2.8) Efficiency	The efficiency of AVR shall be 95% or better	
		2.9) Transformer Winding	Electrolytic prime grade copper (certificate has to be provided during inspection)	
		2.10) Insulation Class	As per IS amended up to date	
		2.11) Insulation level rated short Duration power fluctuation Withstand voltage.	As per IS amended up to date	
		2.12) Metering & indications	a) Digital meters shall be provided with selector switches for measurement of Phase to Phase & Phase to Neutral voltage on all three phases for Input and Output.	
			b) Digital ammeter in output on all three phases.	
			c) Indications on control panel shall be provided for input/output voltage status.	

		2.13) Standby Manual	Facility should also be available to use AVR as a simple manually operated voltage regulator in case of failure of automatic control system. Selector switches for selection of mode of operation (AUTO/MANUAL) and other necessary control switches for this purpose may be provided on the front panel.		
		2.14) Type of Cooling	Natural Air Cooled		
		2.15) Electrical Protection	AVR shall be protected against over loads, short-circuit surge voltage due to system faults, switching operations, and hotspot temperature. Complete details of protections (standard as well as optional) are to be Furnished with the tender. MCCB of reputed makes (Siemens/L&T/EE only) are to be provided at the INPUT/OUTPUT.		
		2.16) Main Selector Switch	A four-position heavy-duty switch shall be provided for the following operations:		
			OFF	The input supply is cut off.	
			TEST	Input supply is through but output is cut off.	
			ON	Input and output both are through.	
			BY-PASS	AVR gets isolated and the input gets directly connected to output.	
		2.17) Working Temperature	AVR shall work satisfactorily under ambient temperature of 0-45^{0}C. and relative humidity of 95% non-condensing at 40^{0}C.		
		2.18) Time-Delay Switching	An adjustable time delay device shall be provided so that the output is connected to load about 15 to 30 seconds (adjustable) after the input is/switched on/ restored after Power Supply failure or momentary interruption during which period the AVR output voltage will stabilize to the desired pre-set value.		
		2.19) Designation Labels	Suitable designation labels for all controls etc. shall be engraved on the panel and shall be distinctly visible.		
		2.20) Connections	Star with insulated neutral.		
		2.21) Terminal arrangement	Cable end boxes for input & output to be provided for up to 4 core, 25 sq.mm copper conductor (stranded) LT cable.		
		2.22) Temp. Rise	To be indicated by the firm		
		2.23) Component Loses	a) No load loss (Watts) at 400 Volt 50 Hz frequency	May be specified	
			b) Max. loss (Watts) at full load current at winding temp. of 75^{0}C and 400 V & also at 340V (Phase to phase input voltage)	May be specified	
		2.24) Approximate weight	a) Core & Windings	May be specified	
			b) Tank fittings and accessories	May be specified	
			c) Total weight in Kg.	May be specified	
		2.25) Overall Dimensions	a) For AVR	May be specified	

			b) For Control Panel	May be specified	
			c) One of the base dimensions should be restricted to 600 mm.	May be specified	
3.	**Mechanical Construction**	3.1) Enclosure	The body of AVR shall be made of MS sheet of minimum 16 SWG thickness capable to with stand transit hazards and to provide mechanical protection to the sensitive parts.		
		3.2) Facility for movement	The AVR will be provided with sturdy wheels for ease of movement.		
		3.3) Outer Finish	First quality paint after the initial primer coat shall be used to prevent rusting, corrosion etc.		
		3.4) Technical Literature	Two sets complete with circuit details.		
4.	**Accessories**		All the accessories like earthing terminals, lifting hook, terminal marking plate, diagram plate, rating plate etc. as may be required for installation, operation & maintenance shall be supplied along with the AVR. Optional accessories, if any, may be quoted separately.		

GENERAL TERM & CONDITION:

The equipment shall be designed for efficient and trouble-free service for long periods of continuous operations. The units shall be designed for easy maintenance, repairs/replacements and complete safety to operating personnel. All materials used in the construction shall be of high quality and conform to the relevant IS specifications.

SALIENT FEATURE:

a) Modular construction of control circuitry for easy replacement.
b) Control voltage device designed using solid – state electronic circuits.
c) High – speed step-less correction of output voltage using A.C synchronous motors, without hunting or overshooting.
d) Independent controls for each of the three phases to avoid unbalance in output load voltage in any phase affecting the output of AVR.
e) Built-in overload and short-circuit protection.
f) Should not introduce waveform distortion.
g) Front access for installation and servicing.
h) Compact size. (One of the base dimensions be restricted to 600mm.)
i) Full complement of meters, controls, alarms and indicators as required to demonstrate parameter of specification.
j) All moving contacts designed to give long and trouble-free service for design life of 15 years.
k) Rugged construction and field – proven design requiring minimum maintenance. MTBF of the equipment to be specified.
l) Suitable for continuous use in tropical climatic conditions.