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Specification for the SITC of C-Band SSPA 50 Watt for Captive Earth Stations.

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DIRECTORATE GENERAL: AKASHVANI
(PLANNING & DEVELOPMENT UNIT)

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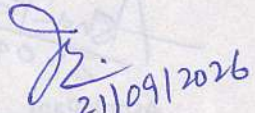
INTRODUCTION

Name of the Project/Scheme

Procurement C-Band SSPA 50 Watt for Captive Earth Stations.

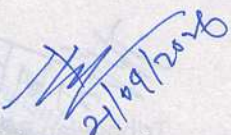
In AIR Network 37 Earth stations are being used for the up-linking of programme on Radio Network. Captive Earth Stations were provided at the AIR Stations in state capitals and union Territory to uplink the contents which can be received by downlink at AIR stations in order to relay the particular content.

Out of 37 Earth Stations 5 number of Earth station are installed in year 2018 and rest are installed before year 2008. Most of the Up-Convertor, SSPA, MCPC, Encoder, DVBS Modulators and IRD Receivers had already served their useful life. These critical equipment's are frequently giving problem and in many Earth Station, these equipment's are working in (1+0) mode. AIR Almora, Rohtak, Kolkata & NBH Delhi to provide 50 Watt SSPA for carrying out the smooth transmission from the Earth Station installed at these Station. The requirement is urgent in nature.


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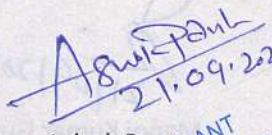
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SECTION 'A'

1. BILL OF MATERIAL

AIR requires following Equipment's/Services as per specification detailed under section A&B. Tenderer shall quote price of each items separately with necessary breakup keeping in view of the following.

- Make and Model of Each Item is to be mentioned.
- Intender reserve full right to choose schedule the quantities of Equipment's/Service etc. At the time of placing order.
- All items mentioned under mandatory items will be taken into consideration for ranking purpose.
- Present requirement is for 04 Nos CES in Akashvani Network.

MANDATORY ITEMS PER SITE:

S	ITEM	Quantity	Zone	Place	Reference
1	50 W C-Band Solid State Power Amplifier (1+1) in Hot Standby configuration with provision of power measurements display and auto-changeover unit along with Dummy load Comprising HPA - 2 Nos Changeover with dummy load 1 No along with flexible waveguide fitted with couplers (Along with Technical, Operational and Maintenance Manual)	5 Sets (1+1)	NZ	NBH Delhi (02Set) Almora (01 Set), Rothak (01 Set)	(B-1)
			EZ	Akashvani Kolkata (01 Set)	
2	Details of any other items required for complete integration of the system	1 set			(B-2)
3	Installation, Testing & Commissioning at site	1 Job			
4	Operation & Maintenance Training at Site	1 Job			
5	Inspection Charges, If any	Lump Sum			Section 'A' 8 (i)

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2. QUANTITY

S.No	For Items	Quantity
1	C-Band SSPA 50 W(1+1)	5 Set

3. LOCATION FOR SUPPLY & INSTALLATION

Equipment as per BOM is to be Supplied, Installed, Tested and commissioned, at 4 locations as per list of Station-ANNEXURE-A.

4. SCOPE

The Scope of this tender includes SITC of the equipment's as per specification, technical requirements and quantities as detailed in the tender along with Installation, testing and commissioning of the equipment's as per mutually accepted ATP.

5. ELIGIBILITY

As per BID DOCUMENT.

6. SCHEDULE OF MATERIAL

A comprehensive schedule of material offered shall be attached with the offer as mentioned in Section A-1 in the same format as price bid minus the price. Price against each item as indicated in Section A-1 (Bill of Material) shall be mentioned separately item wise.

7. COMPLIANCE

The compliance from original equipment manufacturer (OEM) only will be considered while complying with the specification, it may be noted that just mentioning 'complied' will not suffice. Compliance should be supported by proper data/ documentation and should substantiate the specifications. In compliance statement each specification item complied, reference of compliance documents page no. Etc. should be indicated.

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One no. of SSPA 50 Watt shall have to be submitted within one month of opening of Technical Bids for testing its compatibility.

Each page of the datasheet/specification shall be duly signed, with seal, by both the OEM and tenderer. The full name, Postal and Telephone contact details including E-mails address of the person signing on behalf of OEM must be indicated on at least one of the pages. Bids not complying with the above shall be rejected.

8. INSPECTION

Inspection of the equipment and testing of the installed Equipment shall be done as per mutually accepted and approved Acceptance Test Procedure (ATP). Draft ATP is annexed keeping the requirements of SITC.

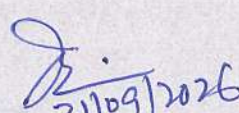
(i) PRE-DISPATCH INSPECTION

Pre-dispatch Inspection of the equipment's shall be carried out at integrator's works by the Engineers(s) of All India Radio. The expenses towards to and fro journey, DA and lodging as per Govt. Of India norms will be borne by Prasar Bharati. The performance certificate along with measurements taken on all equipment's (duly certified by OEM) is required to be submitted by the tenderer before inspection at their premises.

During the Pre-dispatch inspection, supplier shall put up all the equipment's for test on the test bench at integrator premises before the AIR representative and shall provide electric energy, consumable materials, and tools. Testing instruments, and assistance of required kind for carrying out acceptance tests. All the individual factory test reports of the complete lot of the equipment shall be made available to the inspecting authority before inspection. Complete specifications and details for each equipment will be checked and all parameters/ values will be measured as per ATP. Typical details are enclosed in draft ATP. Details ATP shall be submitted by the Firm/OEM and after mutual discussion it shall be approved and inspection shall be carried out on these lines. Three weeks prior intimation for carrying out inspection at Works is to be given by the supplier to the indenter. Inspection charges, if any, are to be quoted separately in the commercial bid.

(ii) SITE INSPECTION

After completion of Installation of all the equipment's at the Station, final inspection of the installation at the Station will be carried out by the representatives of AIR for certifying the Installation. This inspection will include visual examination of the installation, overall performance measurements, link level measurements and any other measurement/examination considered necessary by AIR. At least seven working days' prior notice shall be given by the supplier for conducting final Site Acceptance Test

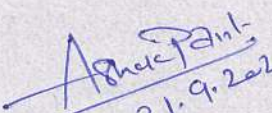

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9. TRAINING

The tenderer shall provide one day training to AIR engineers on setting up, configuration, operation and maintenance of the equipment at each site.

10. MANUAL/ DOCUMENTATION & TEST CERTIFICATES

Manual: 1 Set comprises Two each for the stations, One for Directorate& one set for concerned zonal office). Each manual shall consist of following.

- (i) Manual for operation, configuration, maintenance of each equipment, sub system, NMS, accessories and complete integrated link along with drawings and wiring diagram for the system.(both hard soft copies)
- (ii) Test procedures for parameters measured at subsystem and integrated system levels.
- (iii) Test records/reports of all the measurements performed for each equipment and integrated system.

11. DELIVERY PERIOD

The Delivery Period for SITC and handing over of complete installation for all the sites shall be Eight months from the date of A/T or 3 month from the date of decision letter (DL) from WPC in request of RF equipments whichever is later. SITC Installation payment will be made only after completion of SITC.

12 GENERAL REQUIREMENTS

Technical/General Details.

- (i) The Tenderer in order to enable the indenter to carry out the full technical Evaluation of the tender, should give all the details required to ascertain full merits and demerits of the technical offer. Apart from printed technical data/specs of the equipment's from the OEM, Block schematic up to the sub-system, interconnection and wiring diagram should be given.
- (ii) The equipment's offered shall be of renowned make, established and field proven. All the equipment's should conform to the power supply and environmental requirement as detailed in Para A-13
- (iii) The tender may be asked to demonstrate the equipment's to show compliance to AIR's specification at the technical evaluation stage.

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One set of SSPA 50 Watt shall be submitted by tenderer at technical evaluation stage for checking compliance with AIR Network (This is mandatory)

AIR will give 2 weeks to submit the offered models for demo/testing by each bidder from the date of intimation to each bidder. No extension whatsoever will be granted to any bidder and bidders who are unable to submit the unit within the specified period, their bid will be summarily rejected without any further reference.

- (iv) This equipment's shall be state of art technology, capable for 24x7 operation. It should be incorporated with standard feature of safety and protection.
- (v) Installation & commissioning at respective stations shall be carried out without any disruption of AIR/Doordarshan services. This may require installations at some sites to be carried out even during night hours for which adequate arrangements will have to be made by the supplier at no extra cost to the indenter.
- (vi) The tender shall ensure that the equipment's offered fully incorporate the standard feature of safety and protection including shielding from EMI/RFI as the receive end of the link will be installed at high power transmitter site.
- (vii) Apart from printed technical data/specs of the equipment's, Block schematic up to the sub-system, interconnection and wiring diagram, photograph etc. must also be attached with the offer
- (viii) Successful bidder may conduct site survey at all the stations, if felt necessary, to ascertain the conditions at stations for facilities installation of indoor equipment's. Minor changes at site, if any necessitated due to site condition shall have to be taken care of by the supplier during installation without any extra cost to the indenter.
- (ix) After Acceptance of the tender, the successful tender shall also provide detailed plans of supply of material, testing and commissioning as per ATP.
- (x) During the installation of these equipment's, supplier shall be responsible for safety and security of his material and personnel. At the same time the supplier shall also ensure that there is no damage to AIR material and personnel.
- (xi) Maintenance support including availability of spares for all offered equipment's is to be ensured for at least 10 Years from the date of supply at prevailing rates after expiry of warranty period.

Details of the same should be mentioned in the tender. If at any stage during next ten years if any OEM of the offered equipment proposes to stop production of these equipment's and spares supplier shall intimate AIR in advance to enable AIR to stock the critical items of spares for the life of the equipment's.

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- (xii) All the equipment's shall carry a guarantee/warranty for 12 months from the date of acceptance of installation at site against any manufacturing defects and failures.
- (xiii) The firm/tenderer must ensure to rectify the fault within 72 hours at site from the time of its reporting. In case the equipment cannot be repaired or replaced at site, the firm shall bear all the charges including to and fro freight charges to repair/replace the equipment within or outside the country during the guarantee/warranty period. In such cases the defective equipment shall be replaced or repaired within a period not exceeding 30 days from the date of first intimation to the tenderer/OEM at tenderer expenses. The guarantee/warranty period of that particular location (site) would stand extended by the outage period due to the defect in the equipment. For all the equipment's after sales services is to be ensured for post warranty period for 10 years.

13. ENVIRONMENTAL & POWER SUPPLY

- a) Ambient Temperature: - 0° C to + 50° - For indoor equipment
- b) Relative Humidity: Upto 95% non-condensing at 40° C
- c) Safety/Features: Standard features for safety & protection have to be built in/ incorporated for both Personnel/equipment.
- d) Power Supply: 230 VAC $\pm$ 10%, single phase, 48-52 Hz.

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SECTION-B**TECHNICAL SPECIFICATIONS****1. 50 W C-BAND SOLID STATE POWER AMPLIFIER (1+1) WITH AUTO CHANGE-OVER UNIT FOR S.S.P.A ALONG WITH DUMMY LOAD.**

SSPA shall be of compact and composite construction lightweight and rack mounted with front access for operation and control etc. It should be available along with its inbuilt/associated power supply unit. It should also have front panel meter to monitor forward power, VSWR alarm, Reverse power and indication for status, alarm, faults, over temperature, etc. The SSPA should have its own cooling arrangements. It should not require any external cooling.

(i)	Type	SSPA
(ii)	Rated output power at the output of wave -guide flange	50 W Continuous
(iii)	frequency Range	5850 MHz -6425 MHz
(iv)	Gain frequency Response	± 1 dB over any 40 MHz
(v)	Saturated output power	Nominal +47dBm
(vi)	R.F level control	0-20 dB continuous
(vii)	Gain stability for constant temp.& drive	± 2 dB over 0 ^o to 50 ^o Celsius
(viii)	Input VSWR	$\leq 1.3:1$
(ix)	Output VSWR	$\leq 1.3:1$
(x)	Phase Noise	Should meet IESS 308/309
(xi)	Harmonic	Better than:- 50 dBc (at rated output)
(xii)	Spurious (in band)	Better than:- 60 dBc (at rated output)
(xiii)	S.S.P.A standby operation	1+1 hot redundancy auto change- over with manual over ride
(xiv)	Mounting	19" Rack

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(xv)	Two tone inter-modulation at 3 dB total back off from 1 dB compression point	-25 dBc or better
(xvi)	Monitoring	RF output sample port
(xvii)	RF input connector	N female
(xviii)	Gain	≥ 46 dB
(xix)	RF output	CPR137
(xx)	Operating temp.range	0 ⁰ to 50 ⁰ C

2. INTER FACILITY LINKS

The tenderer should quote for wave guides couplers, adaptors, cables and other accessories required for Antenna connection to the output of SSPA. Details of any other items required for complete integration of the system. All these accessories should be professional standard and compatible with the system. Technical specification and detailed quantity should be mentioned in the offer.

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Section 'C'

DRAFT ATP

1 INTRODUCTION

This document describes the Acceptance Test Procedure (ATP) for testing the various units of CES Equipment under procurement. It covers the details of the item to be tested, list of equipment required for testing and the tests required to be carried out.

2 ITEMS TO BE TESTED

(I) Solid State Power Amplifier (SSPA).

3 TEST EQUIPMENT

- All requisite test equipment conforming to the required standard for testing and commissioning shall be provided by the supplier
- List of the test & measuring equipment's. (This is a tentative list. Additional equipment shall be specified by the indenter if needed).
- Audio analyzer and Spectrum Analyzer(> 8 GHz range)
- Power Meter with sensor & Attenuator etc.(Capable to measure 125 W)
- Frequency counter (≥ 7 GHz)
- Signal Generator (≥ 7 GHz)
- Noise figure meter with noise source
- Digital Modulation Analyzer.
- PC with Printer.
- Any other equipment and standard reference source/setup necessary for measurements.
- Calibrated Directional coupler, inter-connecting cables, Attenuator, combiner, Dividers, adopters etc. as may be necessary for the test.

4 TEST REQUIRED TO BE CARRIED

(Note: This is only a tentative list, Additional items of tests may be specified and carried out by the indenter, if needed.

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4.1 S.S.P.A

- (i) Functionality test for individual SSPA and in (1+1) configuration
- (ii) Power output check
- (iii) Gain check
- (iv) Gain flatness check
- (v) Frequency response
- (vi) IMD Product
- (vii) Spurious
- (viii) Any other tests to check the conformity to the specs

4.2 INTEGRATED SETUP (AT SITE)

a) After the individual tests the equipment will be installed and integrated to work as CES as per Specification. The integrated setup will then be tested for complete system performance and functions.

b) The tests for commissioning would include the integration check and conformity to system Specification including:

(a) Overall uplink/down-link check and performance measurements to meet the specs.

(ii) Any other tests necessary to check the conformity to specs.

4.3 In addition, all the manuals/drawings will be inspected for completeness.

5. GENERAL

- (i) Based on above, supplier shall give a detailed ATP document giving procedure for tests of Individual item as well integrated setup. This should include test setup, equipment details, inter-connections diagram and the Format for test reports.
- (ii) The indenter will examine the same and then it will be finalized after mutual discussion.

Manoj Kumar Gupta

ADE (SCD)

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Tribhuwan Pati
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List of Station-ANNEXURE-A:

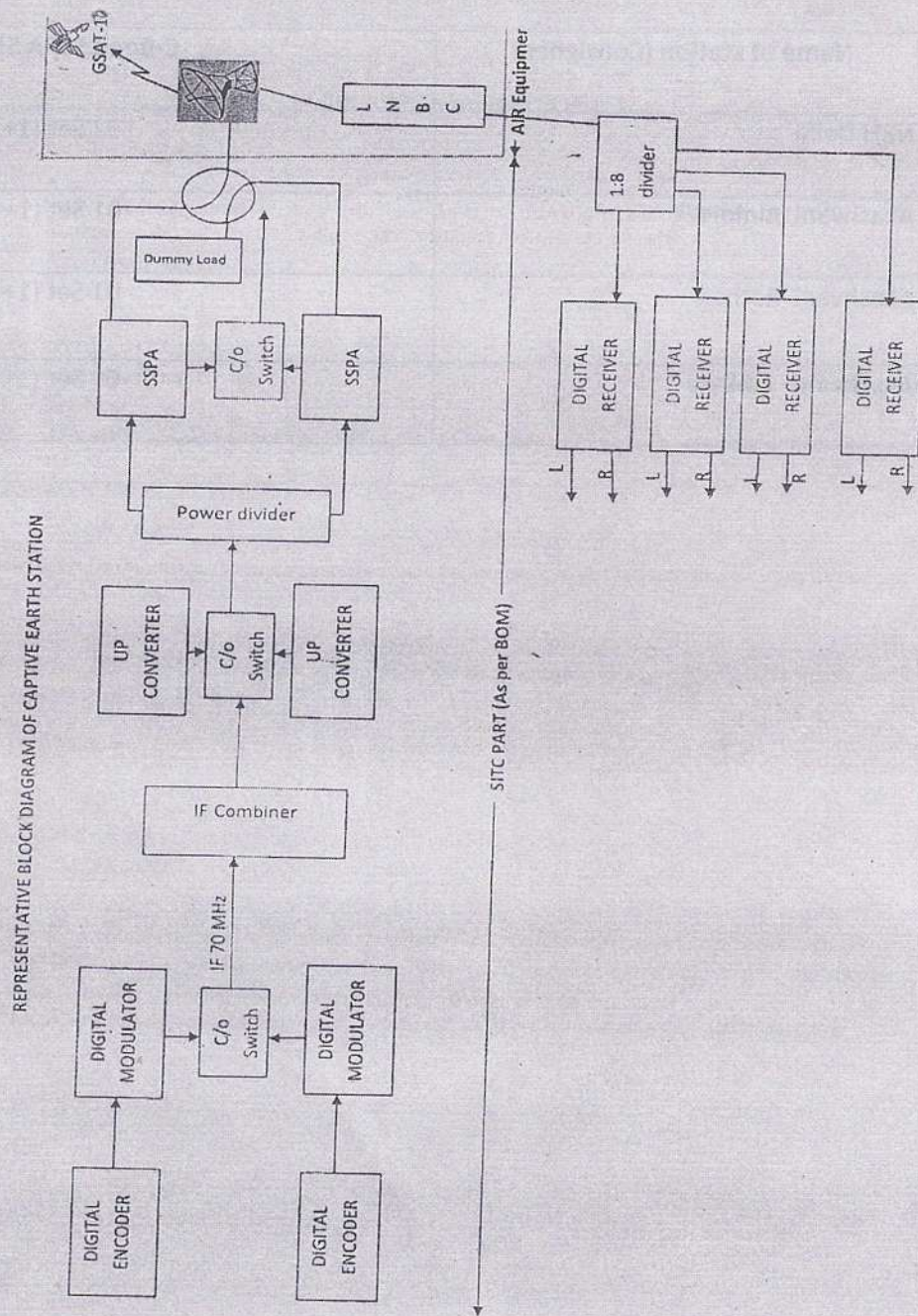
S.No	Name of station (Consignee)	C-Band SSPA 50 Watt
1	NBH Delhi	02 Set (1+1)
2	Akashvani Almora	01 Set (1+1)
3	Akashvani Rothak	01 Set (1+1)
4	Akashvani Kolkata	01 Set (1+1)

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21/09/2026
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