

**PRASAR BHARATI
BROADCASTING CORPORATION OF INDIA
DIRECTORATE GENERAL:ALL INDIA RADIO
(PLANNING & DEVELOPMENT UNIT)**

FNo. 27/12/Spec/CEs Comm. - II /2005-D(TD/FM) &
FNo: 27/12/2(RF cable 3-1/8'')/2005-D(TD/FM)

**SPECIFICATION FOR RF COAXIAL AIR DIELECTRIC CABLE
(PRESSURIZED) OF SIZE 3-1/8''**

Specification No: Xth plan/RF cable / FM /1(Revised) /2005/-D(TD/FM)

[Total number of pages - 7 Nos.]

Date of approval by
Committee of Chief
Engineers : 28.11.2005/30.11.2005

Chief Engineers Committee : FNo. 27/12/Spec/CEs Comm. - II /2005-D(TD/FM)
Approval reference.

The Committee of Chief Engineers has approved the above Specification after discussions held in the meeting on 28.11.2005/30.11.2005 under the chairmanship of CE(D).

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N.B. :

- 1. The Contractor shall submit schedule of material /requirement without price as above in Section I, II and Annexure - I and II of AIR Specification (two bid system i.e. technical bid and commercial bid)**
- 2. Each statement of this specification has to be complied with & supported by printed literature/data sheets from the manufacturer of the equipment by the Contractor, without which tender will be considered incomplete and is liable to be rejected . The Contractor should make a detailed offer.**
- 3. All the technical details , Schematic drawings and schedule of requirement/material must be submitted and enclosed with the tender by the Contractor and failing which the tender is liable to be rejected.**
- 4. The Contractor shall submit the tender offer to AIR along with the compliance statement duly completed in the format given below .**

AIR Spec. Section wise & Clause wise	Details of AIR Spec.	Performance figures of equipment, schematic drawing Nos. and Model No.	Compliance Yes/NO	Ref to tender page No.	Remarks
Section I					
Section II					
Annexure I					
Annexure II					

5. Contractor shall quote the rate / cost of individual spares in the tender offer while submitting the offer for spares.

**SECTION - I
GENERAL SPECIFICATION:**

- 1.0 Please refer tender documents for general term and conditions of contract for supply including all the commercial aspects** like ; Packing and Packing List, Insurance and Marine Risk etc., Guarantee, Payment terms, Penalty/Compensation for Delay, Damages and Liabilities, Time Period and Extension for Delay , Foreclosure of Contract due to Abandonment or Reduction in Scope of Supply , Cancellation of Contract in Full or Part, Recovery of Security Deposit, Performance Guarantee, Unsatisfactory Workmanship, Damages Incurred During transit, Tenderer Liable for Damages, Defects, Recovery of Compensation, Ensuring Payment and Amenities, Tenderer to Indemnify Government against Patent Rights, Release of Security Deposit, Safety Code , insurance from manufacturer's works/factory to respective site etc i.e. in totality
- 2.0 INSPECTION:** RF Cable will be accepted on the basis of manufacture's test Certificates as per Standard International manufacture's practice and receipt of material as per Supply Order.

**SECTION - II (TECHNICAL SPECIFICATIONS)
FOR RF COAXIAL AIR DIELECTRIC CABLE
(PRESSURIZED) OF SIZE 3-1/8"**

- 1.0 RF coaxial air dielectric , Co-axial Feeder Cable of size (Nominal) 3- 1/8"
- 1.1 Capable of handling ≥ 40 KW Average Power at around 40° C Ambient Temp
- 1.2 Attenuation ≤ 0.3 dB / 100M .
- 1.3 Impedence 50 ohm.

Actual Cable length will be intimated at the time of order however feeder cable length may be considered as tentative as given in Annexure-I of AIR Specification.

- 2.0 All accessories etc. are to be provided as per details given below.
 - 2.1 3 -1/8" EIA flange connectors - 2 per station
 - 2.2 3 -1/8" EIA flange Gas Pass connector-1no. per station
 - 2.3 3 -1/8" EIA flange Gas barrier connector-1no. per station
 - 2.4 hoisting stocking s,- 2nos per station
 - 2.5 earthing kits-3 nos per station
 - 2.6 wall gland-2 no per station,
 - 2.7 cable clamps with nut, bolt washer (adjustable width) and associated accessories.
 - 2.8 Clamps with nut, bolt washer(adjustable width)-1 Lot (one clamp per meter length)
 - 2.9 Any other accessories offered for the completeness - 1 Lot of the system (Items wise details of offered and included material , items & part are to be given by the tenderer)

GENERAL:

- 4.1 One printed & duly bound set of Installation, Commissioning, Operation & Maintenance manuals along with of manufacture's test Certificates as per Standard International manufacture's practice for complete RF cable (pressurized) shall be supplied to the Director Engineering (Project), P&D Unit DG AIR New Delhi within one months of Acceptance of Tender.

All the details should be complete and exhaustive. One Soft copy of these documents is also required on CD for use with PC.

- 4.2 For each complete RF Cable one printed & duly bound copies of manual for Installation, Testing, Commissioning, Operation, Maintenance, Fault diagnosis along with manufacture's test Certificates as per Standard International manufacture's practice are to be supplied to each consignee.

- 4.3 DELIVERY :

Within one month from date of placing of order.

- 4.4 GUARANTEE /WARRANTY :18 months after receipt at site.

- 4.5 (OPTIONAL) Spares: RF Cable installation accessories and tools kit.

(Items wise details of offered and included material , items & part number are to be given by the tenderer)

ANNEXURE -I

**3-1/8” RF COAXIAL AIR DIELECTRIC CABLE (PRESSURIZED)
SCHEDULE OF REQUIREMENTS / MATERIALS (UNPRICED)
 [FOR ONE RF CABLE]**

Sr N O.	Description	Qty for Cuttack	Qty for Srinagar	Rate	Unit	Amount
1.	RF Coaxial air dielectric cable of size 3-1/8” (Nominal) fully pressurized as per details given below in compliance to AIR Specification No: Xth plan/RF cable /FM /1(Revised) /2005/-D(TD/FM)	170M	110M		M	
	1.1 3 -1/8" EIA flange connectors - 2 per station	2 nos	2 nos		each	
	1.2 3 -1/8" EIA flange Gas Pass connector-1no. per station	1 no.	1 no.		each	
	1.3 3 -1/8"EIA flange Gas barrier connector-1no. per station	1 no.	1 no.		each	
	1.4 hoisting stockings,- 2nos per station .	2 nos.	2 nos.		each	
	1.5 earthing kits-3 nos per station .	3 nos.	3 nos.		each	
	1.6 wall gland-1 no. per station,	1 no.	1 no.		each	
	1.7 Cable clamps with nut, bolt washer (adjustable width) and associated accessories	1 lot	1 lot		lot	
2.	Any other accessories offered for the completeness of the system (Items wise details of offered and included material ,	1 lot	1 lot		lot	

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	items & part number are to be given by the tenderer)					
3.	Instruction ,Installation, commissioning , Operational & Maintenance) manual along with of manufacture's test Certificates as per Standard International manufacture's practice duly bound- one set along with one soft copy on CD (within one months of acceptance of tender) one for DE (Proj.) P&D Unit, DG:	1Set	1 Set		each	
3. 1	{ To be supplied along with the item } Complete set of Installation, Testing ,Commissioning, Operation, Maintenance, Fault diagnosis along with of manufacture's test Certificates as per Standard International manufacture's practice duly bound manual For each Consignee.	1 Set	1 Set		each	

Total of ANNEXURE-I:

ANNEXURE-II

**3-1/8" RF COAXIAL AIR DIELECTRIC CABLE (PRESSURIZED)
SCHEDULE OF REQUIREMENTS / MATERIALS (UNPRICED)
[FOR ONE RF CABLE] OPTIONAL ITEMS:**

S NO.	Description	Qty for Cuttack	Qty for Srinagar	Rate	Unit	Amount
1.	(Optional) Spares: RF cable installation accessories and tools kit. (Items wise details of offered and included material , items & part number are to be given by the tenderer)	1 Set	1 Set		each	
4.	(Optional): Lightning protection kit for RF cable as per design of manufacturer. (Items wise details of offered and included material , items & part number are to be given by the tenderer)	1 Set	1 Set		each	
5.	Accessories for RF Coaxial air dielectric cable of size 3-1/8" (Nominal) fully pressurized					
5.1	3 -1/8" EIA flange connectors	2 nos	2 nos		each	
5.2	3 -1/8" EIA flange Gas Pass connector-1no. per station	1 no.	1 no.		each	
5.3	3 -1/8"EIA flange Gas barrier connector	1no.	1no.		each	
5.4	Hoisting stockings	1no.	1no.		each	
5.5	Earthing kits	1no.	1no.		each	
5.6	Wall gland.	1no.	1no.		each	

Total of Optional Items ANNEXURE-II: