



**All India Radio**



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

\*\*\*\*\*

FN: 27/12/2(RF cable 3"/3-1/8'')/2006-D(TD/FM)

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

Specification No: Xth plan/RF cable / FM /2/October /2006/-D(TD/FM)

[ Total number of pages - 5 Nos ]

Date of approval : 03.01.2007

**CONTENTS**

**SECTION - I GENERAL SPECIFICATION**

**SECTION - II TECHNICAL SPECIFICATIONS**

**ANNEXURE - I SCHEDULE OF REQUIREMENTS /  
MATERIALS (UNPRICED)**

**N.B. :**

- 1. Each statement of this specification has to be complied with & supported by printed literature/data sheets from the manufacturer of the equipment by the Tenderer, without which tender liable to be rejected. The Tenderer should make a detailed offer.**
- 2. All the technical details , Schematic drawings and schedule of requirement/material must be submitted and enclosed with the tender by the Tenderer and failing which the tender is liable to be rejected.**

**SECTION - I**

**GENERAL SPECIFICATION:**

1.0 **Please refer tender documents (instructions to bidders) for general term and conditions of contract for supply including all the commercial aspects** like ;  
Packing and Packing List, Insurance and Marine Risk etc.,  
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 except 8.2.2

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.

3.0 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 after 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.

4.0 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.

5.0 **DELIVERY** :

Within one month from date of placing of order.

6.0 **GUARANTEE /WARRANTY** :18 months after receipt at site.

**SECTION - II ( TECHNICAL SPECIFICATIONS )**

**RF Coaxial air dielectric feeder cable of size 3”or 3- 1/8”(nominal)  
(PRESSURIZED)**

- 1.1 Frequency Range: 88-108 Mhz
- 1.2 Average Power handling capability  $\geq 35$  KW at around 40° C  
Ambient Temp
- 1.3 Attenuation :  $\leq 0.485$  dB / 100M
- 1.4 Impedence : 50 ohm.
- 1.5 VSWR  $\leq 1.1:1.0$

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 offered as per details given in Annexure-I .

**3.0 (Only applicable for Srinagar RF Cable)**

Ice Loading required : Yes  
Deiceing System : Complete deiceing System is required .

(Full technical details of the complete deiceing system item wise to be given by the tenderer along with drawing etc)

**4.0 (Only applicable for Srinagar RF Cable)**

Max. Ambient Temperature / RH : -10.0 to 40 ° C , RH 95% NC.

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

Sr NO	Description	Qty for Cuttack	Qty for Srinagar	Rate	Unit	Amount
1.	RF Coaxial air dielectric cable of size 3”or 3-1/8” (Nominal) fully pressurized as per details given below in compliance to AIR Specification No: Xth plan/RF cable /FM /2/October/2006/-D(TD/FM)	170M	110M			
	1.1 3”/ 3 -1/8" EIA flange connectors with gas pass connector.	2 nos	2 nos			
	1.2 hoisting stockings.	2 nos.	2 nos.			
	1.3 earthing kits (3nos).	1 Set	1 Set			
	1.4 wall gland.	1 no.	1 no.			
	1.5 Cable clamps with nut, bolt washer (adjustable width) and associated accessories	1 lot	1 lot			
2.	Any other accessories offered for the completeness of the system ( Items wise details of offered and included material , items & part number are to be given by the tenderer)	1 lot	1 lot			

**Specification No: Xth plan/RF cable / FM /2/October /2006/-D(TD/FM)**

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 (after acceptance of tender) one for <b>DE (Proj.) P&amp;D Unit, DG:AIR</b>	1Set	1 Set			
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 <b>For each Consignee.</b>	1 Set	1 Set			
4.0	<b>Deiceing system complete (Full details of the complete deiceing system item wise to be given by the tenderer )</b>	-----	<b>1 Set ( Only for Srinagar)</b>			

**Total of ANNEXURE-I:**