



NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008 (ODISHA)
An Institute of National Importance under Ministry of HRD, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW-SR/EC/2019/168 Dated: 21/11/2019

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **RF Cable Assembly** at NIT Rourkela.

Last date of Submission of Bid : **12/12/2019 by 11:00 AM**

Date of opening of Techno-commercial Bid : **13/12/2019 at 11:00 AM**

For Details:

http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Dr. Subrata Maiti, Department of ECE

Phone: +91-661-2462468

Email ID: smaiti@nitrkl.ac.in

Bidding through: <https://eprocure.gov.in/eprocure/app>

Sd/-
REGISTRAR



**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008, ODISHA**

(OPEN TENDER NOTICE NO.: NITR/PW-SR/EC/2019/168

Dated: 21/11/2019)

(Procurement of RF Cable Assembly)

SL.NO	Description of Goods/Service	Quantity
1.	Flexible RF Cable with N type Adapters (DC-18 GHz)	2 pieces
2.	Flexible RF Cable with SMA (3.5 mm) Adapters (DC-26 GHz)	8 pieces

1. Quantity required : **As mentioned above (All information regarding technical specification provided in the Annexure-I)**
2. Delivery : Within **90 days** from the date of purchase order
3. **Last Date of submission of bid : 12/12/2019 by 11:00 AM**
4. **Date of opening of techno-commercial bid : 13/12/2019 at 11:00 AM**
5. The firm should not have been black listed at any time.
6. The submission of following bids by the tenderer should be through <https://eprocure.gov.in/eprocure/app>. Please follow the guidelines as per the portal.

Procurement of RF Cable Assembly

(Open Tender Notice No.: NITR/PW-SR/EC/2019/168 Dated: 21/11/2019) due on 12/12/2019 by 11:00 AM

7. **Liquidated damage clause** will be charged for any delay in supply of goods.
8. The validity of the tender shall be **90 days** from the date of opening of the bids.
9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx .
10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

**REGISTRAR
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-2462021**

DETAILED TECHNICAL SPECIFICATION**Flexible RF Cable Assemblies**

Sealed tender bids are invited from reputed/authorized vendors/companies for RF cable assemblies with following tender specifications.

S.NO	Parameter	Final Tender Specification	
Standard Features:			
1.	Category	Flexible RF Cable with N type Adapters (DC-18 GHz)	Flexible RF Cable with SMA (3.5 mm) Adapters (DC-26 GHz)
2.	Impedance	50 ohm \pm 1 ohm	50 ohm \pm 1 ohm
3.	Frequency (GHz)	DC-18GHz	DC-26GHz
4.	Connector types	N-Type, Male, straight orientation in both side with standard mounting	SMA (3.5),Male straight orientation in both side with standard mounting
5.	Attenuation(dB/m)	0.8dB/m + connector loss	1.4dB/m + connector loss
6.	Return Loss(dB)	18 dB	18 dB
7.	Operating temperature	-65 °C to +165 °C	-55°C to 125°C
8.	phase stability with bending	<1.2° / 360° / GHz	<0.9° / 360° / GHz
9.	Amplitude stability Max	0.18 dB	0.18 dB
10.	Shielding Effectiveness (up to 18GHz)	\geq 90 dB	\geq 90 dB
11.	Mating Life Cycle	5000	5000
12.	Flexure Life Cycle	5000	5000
13.	Maximum weight	\leq 145gm/m	\leq 73gm/m
14.	Outer Diameter(mm)	\leq 7.90	\leq 5.85
15.	Minimum bending radius	25 mm	25 mm
16.	Rohs/reach	YES	YES

Other Requirements	
Demonstration of performance.	The supplier should demonstrate the standard performance parameters for the cable assemblies such as insertion loss, phase stability, VSWR, etc. The acceptance would be subject to meeting the required criterion.
Warranty	03 Year Standard Warranty (Front line service to be done at customer place & if any cards/modules are to be replaced can be taken to service center & back to bench service charges to be borne by Bidder). The Original End Manufacturer (OEM) should have Calibration and other maintenance support facility located in India.

Guarantee / Warranty and after sales technical support
The tender must be quoted with three years on-site comprehensive Warranty/Guarantee commencing from the date of complete and satisfactory installation of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. The bidder also must agree and issue a certificate stating that technical query will be responded within 7 working days and the support will be provided within 21 working days from the date of reporting of the technical failure for down time free operation of the instrument.
Operation and service manual in English (electronic and hard copy) should be provided with all the equipment and components.
In the technical details, specify clearly about the kind of service/maintenance required for the system. Also mention that whether the service has to be carried out by a company engineer or it can be carried by trained service personnel within India.
A list of institutes (with details) in India where the similar accessories has been sold or is under operation should be provided.