



**NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA-769008 (ODISHA)**

An Institute of National Importance under Ministry of HRD, GOI

**e-NOTICE INVITING TENDER(e-NIT)**

**Tender Notification No: NITR/PW-SR/CR/2020/18**

**Dated: 01/02/2020**

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement and installation of **Benchtop Freeze Dryer (-110°C) along with Accessories** at NIT Rourkela.

Last date of Submission of Bid : **11/03/2020 by 03:00 PM**

Date of opening of techno-commercial Bid: **12/03/2020 at 03:00 PM**

**For Details:**

**[https://nitrkl.ac.in/OldWebsite/Jobs\\_Tenders/9Equipment/Default.aspx](https://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx)**

**Contact:** Dr. Arindam Paul, Ceramic Engineering;

Ph: +91-661-2462215;

Email: [paula@nitrkl.ac.in](mailto:paula@nitrkl.ac.in)

Bidding through: e-Procurement Portal of Ministry of HRD, Govt. of India

<https://mhrd.euniwizarde.com/>

**Sd/-  
REGISTRAR**



# NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008, ODISHA

(OPEN TENDER NOTICE NO.: NITR/PW-SR/CR/2020/18

Dated:- 01/02/2020)

## Procurement of Benchtop Freeze Dryer (-110°C) Along With Accessories

Item No	Description	Quantity
1	<b>Benchtop Freeze Dryer (-110°C)</b>	01 Unit
2	<b>Accessories (3 kVA Online UPS for Power backup of 5 Hrs)</b>	01 Unit

1. Quantity required : **As mentioned above (All information regarding technical specification provided in the Annexure-I)**
2. Delivery : Within **120 days** from the date of purchase order
3. **Last Date of submission of bid : 11/03/2020 by 03:00 PM**
4. **Date of opening of techno-commercial bid : 12/03/2020 at 03:00 PM**
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://mhrd.euniwizarde.com/> Please follow the guidelines as per the portal.

### Procurement of Benchtop Freeze Dryer (-110°C) along with Accessories

(Tender Notice No.: NITR/PW-SR/CR/2020/18 Dated: - 01/02/2020)

**Due on 11/03/2020 by 03:00 PM**

7. **Liquidated damage clause** will be charged for any delay in supply of goods.
8. The validity of the tender shall be **120 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](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

**Specifications for 'Benchtop Freeze Dryer (-110°C) along with Accessories'**

<b>Sl. No.</b>	<b>COMPLETE SPECIFICATIONS</b>
1.	Compact Table top model, preferably chamber outer dimensions within 500 x 400 x 500 mm which may be placed on table (Dimension and weight of the equipment must be provided).
2.	Digital read out of temperature.
3.	Microprocessor controlled and LED display of temperature.
4.	Operated on 230V/50 Hz power supply, Power consumption: 600W
5.	CFC free refrigeration system
6.	Condenser:- Condenser temperature: -110°C (at an ambient of 20°C) for faster drying process of aqueous, organic solvent, other volatiles which have very low freezing point.
7.	Seamless surface condenser with external cooling coil with large surface area without gasket or seals to avoid leakage. Cooling coil exposed in condenser chamber will not be entertained to prevent mechanical damage and difficult defrosting. Cooling media 507/R1150 (No mixture of gases will be considered).
8.	The condenser trap which should be made of highest quality rust free stainless steel AISI 316 grade to prevent corrosion at any case.
9.	Cold trap temperature: -110°C, Condenser dimension: 162 x 180 (mm).
10.	Total condenser volume 4L, Insulation should be 9 to 10 cm, Condenser capacity per 24 hours: 2.5 Kg or better. Total Condenser capacity: 3 Kg.
11.	Materials: Cabinet polyester coated steel
12.	Built-in front attractive Drain tap. Start delay for the compressors. Provision for connecting vacuum concentrator for future upgradation.
13.	Pump:- Direct driven double stage (2 Stage) High Vacuum pump. Capacity: 57 Litre per min, Ultimate vacuum 0.001 mbar. Auto-Isolation cum anti suck back device valve to prevent back flow of pump oil during power failure to save the specimens. Oil mist filter to eliminate oil fumes from the room chamber. One litre of vacuum oil should be supplied extra along with the pump.
14.	Acrylic Drying chamber with Acrylic Base (Dia. 325 mm) fitted with gasket with 6x ¾"

	quick seal rubber valve and four adjustable horizontal shelves with collar.
15.	Various sizes of flask adapters (4 Nos) and ampoule tree for ampoule drying. Four Round bottom flasks (two 250 ml and two 500 ml) should be supplied along with the instrument
16.	<b>3 kVA Online UPS for Power backup of 5 Hrs</b> UPS system must be equipped with inbuilt isolation transformer.

**Details of the configuration and deviation must be provided along with technical bid**

### Other Terms and Conditions

<b>1.</b>	<b>Installation and Commissioning</b>		To be done by the supplier
<b>2.</b>	<b>Training</b>		To be done by qualified personnel of the supplier (at free of cost)
<b>3.</b>	<b>Warranty</b>		<b>Comprehensive warranty of 1 years.</b> The supplier will be responsible for supply any parts that may become faulty. The warranty will be effective from the date of successful installation of the equipment at NIT Rourkela. <b>Two years of AMC (after the completion of warranty period) must be given as free, by the supplier.</b>
<b>4.</b>	<b>General Points</b>	4.1	Please give detailed specifications, catalogues, list of users & technical details, pre-installation requirements, delivery period etc. very explicitly without any ambiguity. The quotation must clearly specify make and model of the equipment. All relevant technical literature/brochures and specifications must also be provided adequately explaining and confirming compliance of the features of the model of the equipment being quoted with those given in the tender enquiry. Without this, the quotation may be liable to be rejected. If there are features in the quoted equipment which are better than what are indicated in the enquiry, they must also be clearly explained.
		4.2	Compliance Statement  All manufacturers/suppliers must submit the compliance statement (in tabular format with column heads mentioned below) along with the technical bid.  a] NIT Rourkela's Enquiry specification, b] Specification of the equipment offered by the supplier, c] Compliance to NIT Rourkela's specification (yes/No), d] Details of deviation, if any, as per NIT Rourkela's specifications.

		4.3	Offers must include sufficient technical documents in support of claims made.  Statements like "conform/Comply/Yes" without supporting documents will not be considered for technical evaluation
		4.4	At least <b>five</b> user name and detail contact from IITs/NITs/reputed Indian Institutes/Govt. Research organizations must be provided where the similar equipment has been supplied in last <b>ten</b> years along with copy of purchase order.
		4.5	Certificate from OEM or its Indian representative to have a complete after sales service set up unit in India.
		4.6	If the bidder is not an OEM, the representative must submit a certificate from OEM for serving the same OEM in India at least for 5 years.
		4.7	Price should include installation and delivery of the Item to NIT Rourkela basis. Price should be quoted in foreign currency for imported items and in Indian rupee for indigenous item.

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