



**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/CR/2018/34**

**Dated: 25/06/2018**

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

Last date of Submission of Bid: **23/07/2018 at 11:00 AM**

Opening date of technical Bid: **24/07/2018 at 11:00 AM**

**For Details:**

**Contact:** Prof. R.Mazumder , Ceramic Engineering; Ph.: 0661-2462208;

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

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

sd/-  
REGISTRAR



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008, ODISHA

(TENDER NOTICE NO.: NITR/PW/CR/2018/34

dated: 25/06/2018)

Purchase of Benchtop Freeze Dryer (-110°C) and its accessories

Sl.No.	Description of Goods/Service	Quantity
01.	Benchtop Freeze Dryer (-110°C)	01
02	One number 5 KVa SERVO controlled stabiliser 130Volt to 300 Volt	01
03	Separate large compartment at least -20oC to prefreezing of samples	01

- Quantity required : as mentioned above (All information provided in technical specification)
- Delivery : Within **60 days** from the date of purchase order
- **Last Date of submission of Bid: 23/07/2018 at 11:00 AM**
- **Date of opening of technical bid: 24/07/2018 at 11:00 AM**
- The firm should not have been black listed at any time.
- 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 **Benchtop** Freeze Dryer (-110°C) and its accessories  
(Tender Notice No.: NITR/PW/CR/2018/34 dated: 25/06/2018) Due on  
**23/07/2018 at 11:00 AM**

- **Liquidated damage clause** will be charged for any delay in supply of goods.
- The validity of the tender shall be **120 days** from the date of opening of the bids.
- 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) .
- 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 -0661-2472021

**Specification for Benchtop Freeze Dryer (-110°C) and its accessories**

1. Compact Table Top model. preferably chamber outer dimension within 50x50x50cm which may be placed on table (Dimension and weight of the equipment must be provided)
2. Operated on 220Volt/50 Hz power supply.
3. Surface condenser temperature -110°C or lower to trap both of water and organic solvents
4. Faster drying process (Drying rate must be provided).
5. Condenser material Stainless Steel preferably AISI316 grade
6. The instrument must be with seamless surface condenser with external cooling coil, heavily insulated at-least 9cm. Cooling coil exposed in condenser chamber will not be entertained to prevent mechanical damage and difficult defrosting.
7. Simple microprocessor controlled with temp led display without any complicated programming/display
8. Condenser capacity minimum 2.5Kg per day or better.
9. Condenser minimum dia 160mm or higher.
10. Start delay for the compressors safety
11. Provision for connecting vacuum concentrator for future up gradation.
12. Compact two stage small size high vacuum pump, vacuum pump size preferably not more than 12"x8"x6" (dimension must be mentioned) with sound as less as possible 44dBA (sound level must be mentioned) to keep the laboratory environment disturbance free.
13. Ultimate partial vacuum 0.0004 mbar
14. The pump should be fitted with safety anti suck back device to prevent back flow of vacuum oil during power failure.
15. Oil mist filter to trap part of oil fumes.
16. Manifold arrangement for freeze drying in flask and petri dish etc. should be quoted along with the system.
17. Flask drying manifold of stainless steel
18. Acrylic/Polycarbonate chamber for drying in trays (Dimension of acrylic/ Polycarbonate chamber must be provided)
19. One Liter vacuum oil
20. Four nos. stainless steel adapters
21. At least 2 numbers wide mouth flask
22. 4nos. RB flasks
23. Two nos bent neck glass adapters
24. Two years AMC after warranty

**Others**

1. Scanned copy of the technical brochure of the equipment given in the quotation must be included in the bid
2. Atleast five user name and contact from NIT/IIT/reputed indian institute/Govt. research organization must be provided where the same equipment has been supplied in last three years along with copy of purchase order.

**Accessories to be provided and required for smooth running of equipment**

1. One number 5 KVa SERVO controlled stabiliser 130Volt to 300 Volt to be quoted in INR if manufactured in India and must be compatible with the system.
2. Separate medium compartment at least -20oC to prefreeze samples to be quoted in INR if manufactured in India and must be compatible with the system.

**In addition**

- Efficient service facility may be available in Rourkela/Bhubaneswar/Kolkata.(preference will be given to those bidder who have service facilities available in above mentioned cities)
- Freeze dryer system should be completed with all required vacuum tubing, flanges, connectors, adapters etc.
- The bidder should have complete knowledge of freeze drying process, installation, demonstration, application etc.

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