



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/CY/2019/129

Dated: 28/06/2019

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Rotary evaporator with vacuum pump and recirculating chiller** at NIT Rourkela.

Last date of Submission of Bid : 26/07/2019 at 11:00 AM

Opening date of Techno-commercial Bid : 29/07/2019 at 11:00 AM

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

Contact: Dr. Sabita Patel, Department of Chemistry;

Ph.: 0661-2462660 M: 9861414910

Email: sabitap@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/CY/2019/129

dated: 28/06/2019

(Procurement of Rotary evaporator with vacuum pump and recirculating chiller)

Sl. No.	Description of Goods/Service	Quantity
1.	Rotary evaporator with vacuum pump and recirculating chiller (Detailed specification as per attached Annexure – I)	01

- Quantity required** : as mentioned above (All information provided in technical specification in Annexure I)
- Delivery** : Within **90 days** from the date of purchase order.
- Last date of Submission of Bid** : **26/07/2019 at 11:00 AM**
- Opening date of Techno-commercial Bid** : **29/07/2019 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.

Rotary evaporator with vacuum pump and recirculating chiller
(Open Tender Notice No: NITR/PW/CY/2019/129, dated- 28/06/2019) Due on 26/07/2019 at 11:00 AM

- Liquidated damage clause will be charged for any delay in supply of goods.
- The validity of the tender shall be **90 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
- 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

Specification for Rotary evaporator with vacuum pump and recirculating chiller

Technical Specifications

Application:

The system would primarily be used for efficient and gentle evaporation of solvents under control boiling point applying precise vacuum.

System:

The system should be with the following features:

ROTARY EVAPORATOR

Condenser Surface Area:	1400 ~ 1500 cm ² Maximum
Safety:	The glass parts should be Plastic Coated.
Rotation:	20 ~280 RPM
Lift:	Motorized/Electronics
RPM Direction:	Option for Bi direction rotation
Sensors:	Option for foam sensor
Heating Bath control :	RT to 220 ⁰ C with set and actual temp. display
Default Supply:	With 1 Ltr Receiving and Evaporating Flask
Display:	RPM, Heating bath temperature, Height movement
Operating Voltage:	100-240V
Power consumption :	100W
Frequency:	50-60Hz
Protection class :	IP 21
Approval:	CE/CSA

VACUUM PUMP

Mode :	Speed and Valve control
Observation:	Glass window for easy maintenance
Default mode:	Speed control
Suction Capacity:	1.8m ³ /h Maximum
Number of	
Steps(Heads):	2
Final Vacuum – 5mbar:	5mbar
Power consumption:	180W
Operating Voltage:	100 ~ 240 V 50Hz
Sound Level:	32-57 dBA

VACUUM CONTROLLER

Display Screen: 4'3 LCD Display
Display Parameters: Heating Bath Temp/RPM/Chiller Temp/Vacuum
Option: To fix on rotary evaporator or Vacuum pump
Protection class: IP 21
Detection: Automatic detection of Heating Bath Temp
Library: Common 63 solvent with auto detection of required vacuum
Facility: Can be used independently if required
Approvals: CE/CSA

RE-CIRCULATING CHILLER

Cooling capacity: 550W cooling power @ 15°C
Temperature range: -10°C to +25°C
Voltage : 230V, 50/60 Hz
Temperature Display : Resolution 0.1 C
Refrigerant: R-134a, CFC free refrigerant
Temperature regulation accuracy : +/-1C
Tank volume: 3.0 L
Flow Rate: 2.5 L/min

Complete Solution from the same source of manufacturing for better compatibility & integration
Single point operation for all set parameters
Single point ON/OFF for all attached accessories e.g. Chiller/Vacuum Pump

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