



भारतीय प्रौद्योगिकी संस्थान रुड़की  
रुड़की- 247667 (उत्तराखण्ड)  
**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**  
ROORKEE -247 667 (Uttarakhand)

No. 1000000008/MM-6/IITR/2021-22/RE-EOI-2/Oxygenplant/DOSW/320 Dated: 27 Aug 2021

**Call for Expressions of Interest (EOI)**

Indian Institute of Technology (IIT), Roorkee invites Expression of Interest (EOI) from reputed manufacturer/authorized supplier/dealer firms for **Oxygen generation cum bottling plant** at IIT Roorkee.

Expression of interest (EOI) should reach on or before **17<sup>th</sup> Sep. 2021** at 15:00 Hrs at the below mentioned address which will be opened on **17<sup>th</sup> Sep. 2021** at 15:30 Hrs.

EOI Bid Submission End Date & Time: 17<sup>th</sup> Sep. 2021 (15:00)  
EOI Bid Opening Date & Time: 17<sup>th</sup> Sep. 2021 (15:30)

Bids for EOI should be submitted in a Separate Sealed Envelope (Cover) super-scribed as EOI for EOI no. & Item Name and the same to be addressed to:

**Material Management,**  
**James Thomason Building,**  
**Indian Institute of Technology, Roorkee**  
**Roorkee-247667, Uttarakhand**  
**Ph.: 01332-28-4693**  
**E-mail: [mmiitr@iitr.ac.in](mailto:mmiitr@iitr.ac.in)**

For any Clarification regarding technical aspects please Contact:

<b>Prof. Ashraf Iqbal,</b> <b>ADOSW (Bhawans, Mess IIT Roorkee)</b> <b>Ph.-01332-28-5094</b> <b>Email: <a href="mailto:adosw.bhawan@iitr.ac.in">adosw.bhawan@iitr.ac.in</a></b>	<b>Prof. V. C. Srivastava,</b> <b>Deptt. of Chemical Engg.,</b> <b>IIT Roorkee</b> <b>Ph.-01332-28-5889</b> <b>Email: <a href="mailto:vimal.srivastava@ch.iitr.ac.in">vimal.srivastava@ch.iitr.ac.in</a></b>
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Deputy Registrar (MM)/ Assistant Registrar (MM),  
Material Management, IIT Roorkee

**Call for Expressions of Interest (EOI)**  
**for**  
**Oxygen generation cum bottling plant**

Indian Institute of Technology Roorkee, Roorkee invites EOI from the eligible bidders for the supply of Medical Oxygen Generation plant of 20 Nm<sup>3</sup>/hour capacity based on Pressure Swing Adsorption technology, and its subsequent bottling in oxygen cylinders at about 150 kg/cm<sup>2</sup> pressure.

**Scope of work**

**A. Pressure Swing Adsorption system**

The system should meet the following minimum requirements:

1. 20 Nm<sup>3</sup>/ hour generation capacity of medical oxygen
2. Purity of Oxygen 93%± 3%
3. Rotary or centrifugal type of compressor of suitable capacity
4. Filters for removal of all the contaminants including biological from air
5. Moisture removal unit
6. Twin towers of molecular sieves to run in automatic mode for continuous production of oxygen.
7. Oxygen purity display unit
8. The Makes of PSA Plant should be ISO:13485/CE/US FDA/NABL certified
9. Digital oxygen purity display unit

**B. Bottling of produced oxygen from 1.**

1. Compressor of suitable type and capacity to bottle the generated oxygen in oxygen cylinders at 150 kg/cm<sup>2</sup> pressure.
2. Oxygen storage tank of suitable capacity to meet the fluctuations of input oxygen
3. All the manifolds and tubings required for oxygen filling
4. Certification formalities from Petroleum and Explosives Safety Organisation (PESO), Nagpur for bottling facilities.

*(Handwritten signatures and names)*

D.K. Singh  
F.M.J.  
A.K. Jha  
B. K. Jha  
A.S.  
V.C. Sivaraj  
(V.K. Singh)

(D.K. Jha)