



# राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान

(संसद के अधिनियम के अधीन स्थापित राष्ट्रीय महत्व का एक संस्थान)

जायस ,अमेठी, उत्तर प्रदेश, भारत-229304

**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**

(An Institution of National Importance Established under an Act of Parliament)

Jais, Amethi - 229304, Uttar Pradesh, India

## QUOTATION ENQUIRY

**Ref. No.:** RGIPT/Jais/CE&BE/ Water Electrolyzer Setup/2023-24/01 Dated: 21.11.2023

**Last Date and time for the quote: 12.12.2023 till 13:00 hours in the Office of the Department of Chemical Engineering and Biochemical Engineering, 5<sup>th</sup> Floor, AB-2, RGIPT, Jais, UP-229304.**

**Dear Sir(s),**

Please submit your lowest quotation for supplying the under mentioned item. Quotation in duplicate must reach us before the date marked above and should contain the following information:

1. Clearly mention the date of validity of offer.
- 2. Kindly clearly mention your E-mail ID and Mobile number.**
3. Kindly mention appropriate GST % as applicable for supplying of Goods & Services to educational institution.
4. Please mention your GST registration number and PAN in the quotation.
5. Conditions of supply and terms of payment shall be clearly mentioned in the quotation.

Quotation must be sent in **sealed envelope** with word **“QUOTATION for Water Electrolyzer Setup”** and addressed to Office of the Department of Chemical Engineering and Biochemical Engineering, 5th Floor, AB-2, RGIPT, Jais- 229304 (UP). Our reference number and last date as given above should be clearly marked over it.

Details of the item are as follows:

Item Name: Water Electrolyzer Setup.

Quantity: 01 Nos.

S.no	Component	Specification
1	DC power supply with CC, CV modes	<ul style="list-style-type: none"><li>▪ Atleast 0-20 V; least count <math>\pm 0.01</math> V</li><li>▪ Atleast 0-2 A; least count <math>\pm 0.01</math> A</li><li>▪ Mode of operation: Constant Current (CC); Constant Voltage (CV)</li><li>▪ Programmable to user requirement</li></ul>
2	Water electrolyzer	<ul style="list-style-type: none"><li>▪ Body material of construction: acrylic with suitable gaskets and SS nut-bolts.</li><li>▪ Atleast SS316L (preferably Titanium-based) electrodes of minimum size 10 cm x 15 cm</li><li>▪ H<sub>2</sub> production &gt; 5 mL/min</li><li>▪ N<sub>2</sub> Gas purging port with rotameter for constant flow rate.</li><li>▪ Gas ports for H<sub>2</sub> collection</li><li>▪ Gas port for O<sub>2</sub> gas collection</li></ul>

		<ul style="list-style-type: none"> <li>▪ Gas-liquid separation arrangement</li> <li>▪ Moisture removal chamber (using silica beads) for H<sub>2</sub> gas</li> <li>▪ Suitable electrical terminals</li> </ul>
3	Accessories	<ul style="list-style-type: none"> <li>• Operational manual</li> <li>• Handheld multimeter (3 ¾ digits): <ul style="list-style-type: none"> <li>➤ Voltage range: 40 mV; 400 mV; 4V; 40 V; 400 V with accuracy of ±0.5% (reading)</li> <li>➤ Current range: 400 µA; 4000 µA; 40 mA; 400 mA; 4A with accuracy of ±1.5% (reading)</li> <li>➤ -20 to 1000 °C</li> <li>➤ 4000 count with HD Display</li> </ul> </li> <li>• Tedlar bag: 500 mL capacity</li> </ul>

**N. B.: Other terms & conditions pertaining to item mention are mentioned below:**

1. Supply and installation must be executed in full within the five weeks of release of PO.
2. Penalty will be deducted in case of delay in supply as per the institute norms.

Dr. Karan Malik  
Assistant Professor,  
Department of Chemical Engineering and Biochemical Engineering,  
RGIPT, Jais