राजीव गाँधी पेट्रोलियम प्रौद्योगिकी संस्थान
(संसद के अधिनियम के अधीन स्थापित राष्ट्रीय महत्व का एक संस्थान)
जायस, अमेठी- 229304, उत्तर प्रदेश, भारत
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

Date: 03 /12/2025

Ref: RGIPT/Jais/Quotation/2025-26/P-2503/01

To,

M/s .....

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Subject: Request for Quotation of 5-Phase Induction Motor/Traction Motor

Dear Vender,

We kindly request you submit your quotation for supply and installation of below-mentioned item as per the following format.

Sl. No.	Name of Software	Quantity	Unit/Rate	Amount (INR)
1.	5-Phase Induction Motor/Traction Motor	1	1	
			GST	
			Total	

Terms & Conditions:

1. The total amount should be inclusive of all taxes including delivery and installation charges.
2. The quotation should be sent to us with duly signed and stamped in a sealed envelope either by hand or by post only.
3. The quotation should reach us within 21 days of the date of this request being published.
4. Quotation that is received after the deadline, for whatever reason, shall not be considered for evaluation.
5. Penalty will be deducted in case of delay in supply and installation of items as per the institute's norms.
6. Delivery and installation of the items should be completed in 90 days.
7. Specifications are attached in the annexure-1.
8. PAN, GST and complied document of technical specifications and terms & conditions.

03/12/25

Annexure-1

Technical Specifications

5-Phase Induction Motor

- **Power Rating:** 5 kW
- **Voltage:** 220 V (Line-to-Line)
- **Frequency:** 50 Hz
- **Number of Poles:** 4
- **Synchronous Speed:** 1500 RPM
- **Rated Speed:** Approx. 1470 RPM (low slip; specify exact rated speed at full load)
- **Winding Type:** Distributed winding
- **Winding Access:** Open-end winding with 10 terminals
- **Inverter Grade:** Suitable for inverter operation with **dv/dt rating up to 16 MV/s** (800 × 20000 V/s)
- **Construction:** Inverter duty insulation
- **Cooling:** TEFC (Totally Enclosed Fan Cooled) preferred
- **Mounting:** Foot mounted on a high-quality common base plate with **anti-vibration pads**
- Shaft should support a **digital speed encoder**.

Speed Sensor

- **Type:** Digital speed encoder
- **Resolution:** Minimum 512 or 1024 pulses/rev.
- **Output:** Quadrature or TTL compatible signal.

Additional Research Requirements

- Image of the stator lamination and one rotor lamination for the 5-phase induction motor.
- Axial length of the stator core for electromagnetic modelling and simulation purposes.

02/12/25

Dr. Bheemaiah Chikondra

Assistant Professor, EEE

Address:
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Jais, Amethi – 229304 (Uttar Pradesh)

02/12/25