



अधीक्षण अभियंता का कार्यालय
OFFICE OF THE SUPERINTENDING ENGINEER
कार्य स्थापना अनुभाग, WORKS ESTABLISHMENT SECTION
राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक, सूरतकल
NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL
पोस्ट श्रीनिवासनगर, मंगलूरु – 575025, कर्नाटक, भारत. / Post Srinivasnagar, Mangaluru – 575025, Karnataka,
INDIA.
Phone: [0824] - 2473029, 2473028 Email: se@nitk.edu.in Website: https://www.nitk.ac.in

No. Stores/Elect-Transformer- Oil-NIQ/2024-25/SK

Date: 15-10-2024

NOTICE INVITING QUOTATIONS

The National Institute of Technology Karnataka, Surathkal (in short - NITK, Surathkal or Institute) is an autonomous Institute of the Govt. Of India [under the Ministry of Education] imparting technical and science education. The Institute intends to “**Supplying of Transformer Oil for Power House and 33 KV substations at NITK**”. The details of work listed on the sheet enclosed. In this connection, sealed quotations are invited by the undersigned subject to the terms and conditions enumerated here under from the Contractor/ agencies to reach this office on or before **24-10-2024 by 3:30 PM**. The quotations shall be opened on the same day if possible.

Terms and conditions:

1. The intending bidder shall quote his rates in the ‘Quotation Format’ enclosed here with either in his letter head or using the same format. He / She shall sign each page with seal of the firm. Envelope super scripted as Quotation for “**Supplying of Transformer Oil for Power House and 33 KV substations at NITK**”. and addressed to as “The Superintending Engineer, NITK, Surathkal, Post Srinivasnagar, Mangaluru – 575025”
2. The GST registration number and the PAN number of the bidder shall be mentioned in the quotation. Quotation without this information will not be accepted.
3. Quotation may be dropped in the Tender Box kept in the office or may be sent by post/ courier. It is the responsibility of the bidder to make sure that the quotation is delivered in time. The quotations received after the due date will not be entertained. The rate quoted shall be valid for 90 days for its acceptance.
4. The bidder shall specify the make of material for which the rate is offered by him. Complete technical details of the quoted item should be submitted along with the quotation.
5. **Freight of Rate [F.O. R] (Including loading and unloading) specified by undersigned, – NITK, Surathkal.**
6. **The quotation/ bid shall be accepted depending on the total lowest amount quoted for item. The bidder who quoted total lowest amount will supply the materials.**
7. The work should be supplying the item within 15 days from the date of confirmation of acceptance of the quotation.

8. Tenderer shall refer the details, specifications enclosed separately. The materials should be strictly as per the specification specified, without which the materials will be rejected.
9. No advance payment will be made. The payment shall be made within 30 days from the date of completion of work. No interest will be paid for delayed payments if any.
10. The rate quoted should be firm. No claim for enhancement of rate is admissible after opening of the Quotations.
11. Terms and conditions stipulated in this notice inviting conditions are binding on the bidder.

Yours Faithfully,

sd/-
Superintending Engineer
NITK, Surathkal

Name and Address of the Bidder:

Contact No:

GST registration number:

PAN number: -

Date:

QUOTATION

To

The Superintending Engineer,
Office of the Superintending Engineer,
N.I.T.K., Surathkal.

| Sl. No | Description of the items | Quantity | Rate without tax in Rs / each | GST | Amount with tax in Rs. |
|--------|---|-----------------------|-------------------------------|-----|------------------------|
| 1 | Transformer Oil (Specification attached) 220 Ltrs / each barrel | 2 Barrel (440 Liters) | | | |
| | Grand Total Amount | | | | |

DESCRIPTION

TRANSFORMER OIL is designed for human safety and free from carcinogenic Poly chlorinated Bphenyls (PCB) and Poly aromatic hydrocarbon (PAH).

PROPOSED USAGE

- Electric transformers
- Switch gears
- Circuit breakers which require insulating fluids
- Has very high oxidation stability
- Excellent ageing properties resulting in long product life

MEETING SPECIFICATION

IS: 335:1993 (Reaffirmed 2005) performance levels

PHYSICO-CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance | Clear and transparent and free from suspended matter of sediments |
| Density at 29.5 °C, g/cc | 0.8279 |
| Kinematic viscosity, cst At 27°C At 40°C | 16.46 11 |
| Interfacial tension at 27°C | 0.044 N/m |
| Flash point pensky-marten (closed),°C | 172 |
| Pour point,°C | -18 |
| Neutralization value, mg KOH/g a) Total acidity b) Inorganic acidity/alkalinity | Nil Nil |

| | |
|---|---|
| Corrosive sulphur | Non-corrosive |
| Electric strength (breakdown voltage) –kV(rms) a) New unfiltered oil | 72 |
| Dielectric dissipation factor at 90 °C | 0.00025 |
| Specific resistance (resistivity) a) A:90 °C b) A:27 °C | 750x10 ¹² ohm-cm 11300x10 ¹² ohm-cm |
| Oxidation stability a) Neutralization value after oxidation, mg KOH/g b) Total sludge after oxidation, % by wt. | 0.4 0.1 |
| AGEING CHARACTERISTICS AFTER AGEING | |
| Open breaker method with copper characteristics | |
| Specific resistance (resistivity) a) A:27 °C b) A:90 °C c) dielectric dissipation factor at 90 °C d) total acidity e) total sludge | 350x10 ¹² ohm-cm 19x10 ¹² ohm-cm 0.0025/2.08 DC NIL NIL |
| Presence of oxidation inhibitor, % by wt | Absent |
| Water content, mg/kg(ppm) | 50 |
| SK value (%) | 1 |

Seal and signature of the Bidder

