

SPEED POST



**SARDAR VALLABHBHAI NATIONAL
INSTITUTE OF TECHNOLOGY, SURAT-395 007.
DEPARTMENT OF MECHANICAL ENGINEERING**

No. DoME/ICAE Lab/ *1362/790* /2025-26

त्थरीत डाक
SPEED POST

Date: *24*/07/2025

To,

25 JUL 2025

Institute Website

SUB:-Enquiry for Smoke Meter for Diesel Engines

Dear Sir,

You are requested to quote your prices for supply of stores listed overleaf. The quotations may be sent to the undersigned in a sealed envelope and subscribed as: "Quotation with reference to Enquiry No. DoME/ICAE Lab/ *1362/790* /2025-26 dtd *24/07*/2025. Your quotation should reach the undersigned on or before **13/08/2025 at 5:00 pm.**

The quotations should be furnished with the following information.

- 1) The brand or make of each item should be specifically stated and wherever necessary, Complete set of specifications and dimensions should be given.
- 2) If asked, samples are accompany the quotations
- 3) Sales tax, General tax, Central Sales tax, Custom duty, Insurance charges, Packing and Forwarding charges, if not included in the prices quoted, should be clearly specified.
- 4) The period of validity of the quotation should be at least 45 Days. Offers subject to prior sale may please be avoided.
- 5) The delivery period is to be clearly mentioned in the quotation.
- 6) The mode of delivery of the stores may be mentioned. The delivery should be F.O.R. Surat or at the Institute.
- 7) All concessions available to an educational institution should be specified and also taken into account while quoting.
- 8) This Institute is located within the limits of S.M.C. & exempted from the paying of octroi duty on incoming goods from outside limits of S.M.C.
- 9) This Institute is registered with the dept. of scientific & industrial Research (DSIR) for the purpose of availing custom duty exemption & central excise duty exemption, and hence the certificate to this effect will be issued wherever it is necessary on demand.
- 10) Payment is normally made by cheque drawn on the S.V.N.I.T. Branch Office of State Bank of India, Surat-395007 within a period of thirty days from the date of receipt of stores.
- 11) Your specifications & terms- conditions should be as per the format attached, must be on your company letterhead & signed by an authorized person.
- 12) Offered quotation may be rejected if any ambiguity is found in offered specifications, terms & conditions supplied by party in specified tabular format.
- 13) The Director reserves the right to accept stores, which are not strictly in confirming with the specifications but otherwise, found suitable.

Yours faithfully,

[Signature]
24/07/2025

[Signature]
Head, Mech. Engg. Dept

Specification

Sr. No.	Item Name																												
1.	<p>Description: Smoke Meter For Diesel Engines</p> <table border="1"> <thead> <tr> <th colspan="2">Technical Specification:</th></tr> </thead> <tbody> <tr> <td>Measurement Length</td><td>430mm \pm 5mm</td></tr> <tr> <td>Interface</td><td>RS 232</td></tr> <tr> <td>Operating Voltage</td><td>220V, 50Hz / 11.5-36V DC</td></tr> <tr> <td>Approval</td><td>ARAI Pune</td></tr> <tr> <th colspan="2">Measurement Data:</th></tr> <tr> <td>Measurement Range</td><td>Absorption (K value): 0...99.99m⁻¹ Opacity : 0...100%</td></tr> <tr> <td>Resolution</td><td>Absorption (K value): 0.01m⁻¹ Opacity: 0.1%</td></tr> <tr> <td>Engine Speed (RPM)</td><td>Measurement: 400...6000 min⁻¹ Resolution : 1rpm</td></tr> <tr> <td>Oil Temperature</td><td>Measurement : 0...150°C Resolution: 1°C</td></tr> <tr> <td>Linearity check</td><td>=50% of measurement range</td></tr> <tr> <td>Warranty</td><td>1 year</td></tr> <tr> <th colspan="2">Standard Accessories:</th></tr> <tr> <td> <ul style="list-style-type: none"> Equipment (Smoke Meter) RPM sensor Set of 3 Probes Oil temperature Sensor Mains Cord Hose </td><td> <ul style="list-style-type: none"> Battery Cable LED Remote Operating Manual Computerization Software CD RS 232 Cable Trolley </td></tr> </tbody> </table> <p>An instruction manual should be provided with equipment. The range of the equipment & Procedure of experiments, necessary precautions etc. should be described in details.</p>	Technical Specification:		Measurement Length	430mm \pm 5mm	Interface	RS 232	Operating Voltage	220V, 50Hz / 11.5-36V DC	Approval	ARAI Pune	Measurement Data:		Measurement Range	Absorption (K value): 0...99.99m ⁻¹ Opacity : 0...100%	Resolution	Absorption (K value): 0.01m ⁻¹ Opacity: 0.1%	Engine Speed (RPM)	Measurement: 400...6000 min ⁻¹ Resolution : 1rpm	Oil Temperature	Measurement : 0...150°C Resolution: 1°C	Linearity check	=50% of measurement range	Warranty	1 year	Standard Accessories:		<ul style="list-style-type: none"> Equipment (Smoke Meter) RPM sensor Set of 3 Probes Oil temperature Sensor Mains Cord Hose 	<ul style="list-style-type: none"> Battery Cable LED Remote Operating Manual Computerization Software CD RS 232 Cable Trolley
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