

## REVISED SCOPE OF WORK & TECHNICAL CRITERIA

Supply, deliver, install, and commission a viscometer assembly complete with a heated sample changer, magnetic particle trap, a computerised data management system, software licence, monitor and printer.

### SCOPE OF WORK AND TECHNICAL EVALUATION

A Short Supply Term contract is required. The following tasks will be done as part of the contract:

#### Scope of work/supply

Supply, deliver, install, and commission a viscometer assembly complete with a heated sample changer, magnetic particle trap, a computerised data management system, software licence, monitor and printer.

#### Specification of Product or Goods

(Office use only: SAP description = Viscometer Assembly Material no 0766230)

##### **1.0 Viscometer**

- 1.1 Suitable for testing Heavy Fuel Oil (HFO) according to ASTM D7042.
- 1.2 Test simultaneously density as well as viscosity at different temperatures.
- 1.3 Integrated viscosity-temperature extrapolation according to ASTM D341.
- 1.4 Determine Viscosity index (VI) using low sample volume (2.5 mL)

##### **2.0 Automated sample changer**

- 2.1 At least 56 position magazine with sample tubes.
- 2.2 Heating bath fit for fuel oil testing.
- 2.3 Magnetic sample trap.

##### **3.0 Peripherals**

- 3.1 Standalone data management system (e.g. PC) with monitor.
- 3.2 Software loaded to enable collaboration with other testing devices, software licence included.
- 3.3 Functionality to download data to Thermo Scientific Sample Manager Laboratory Management System (LIMS).
- 3.4 Suitable printer.
- 3.5 UPS.

The instrument must be delivered and installed complete with the required glassware/consumables, operating unit, printer and calibration standards in order to plug and play. Provide training on the operation and maintenance of the equipment.

The calibration certificate must contain minimum information as follows:

- ✓ Name of the requester,
- ✓ unique number for the certificate,
- ✓ address of requester and supplier,
- ✓ supplier company name,
- ✓ accreditation number (if accredited),
- ✓ Serial number of instruments being calibrated,
- ✓ Summary of status,
- ✓ Results,
- ✓ Uncertainty of measurements,
- ✓ Environmental conditions at the time of calibration,

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- ✓ Date calibrated,
- ✓ Name and signature of the technician calibrated the instrument.

Instrument to be delivered to the following address:

PS Oil Laboratory (Rosherville), Eskom Research & Innovation Centre, Oil lab - Block B – Reception, Lower Germiston Road, Rosherville 2022.

Contact persons:

Mariaan Avis – 011 629 5375 (082 4933041)

Joe van der Walt 011-629 5008

### TECHNICAL EVALUATION CRITERIA 100%

**Table 1: Technical Evaluation Criteria (100%)**

#### **System:**

Requirements		Supplier to provide evidence as follows:	Weight %
<b>Instrument Specifications</b>	Full compliance to specification	<ul style="list-style-type: none"> <li>Itemized compliance statement cross-referencing each specification</li> <li>Manufacturer's technical datasheets with model-specific performance data</li> <li>Fully compliant = 100%</li> <li>Non-compliant with any item = 0%</li> </ul>	15
<b>Support</b>	Aftersales support with <48hr response time	Warranty certificate/letter specifying: <ul style="list-style-type: none"> <li>Parts coverage</li> <li>Labor costs</li> <li>Response time</li> <li>On-site response</li> <li>CVs of local service technicians/engineers</li> <li>Fully compliant = 100%</li> <li>Non-compliant with any item = 0%</li> </ul>	15
<b>Warranty</b>	Minimum 3-year comprehensive warranty	Warranty certificate/letter specifying: <ul style="list-style-type: none"> <li>3-years = 15%</li> <li>2-years = 10%</li> <li>1-year = 5%</li> </ul>	15
<b>Supplier Experience</b>	Minimum of 3 successful installations of similar systems globally	Purchase orders/contracts with client details (redacted for confidentiality) <ul style="list-style-type: none"> <li>3 =25%</li> <li>2 =15%</li> <li>1 =5%</li> </ul>	25
<b>Training Program</b>	On-site training for operators	Detailed training plan covering: <ul style="list-style-type: none"> <li>Daily operation</li> <li>Maintenance and Troubleshooting</li> <li>Training materials</li> <li>Fully compliant = 100%</li> <li>Non-compliant with any item = 0%</li> </ul>	10

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<b>Project Timeline</b>	Delivery, installation and commissioning within 8 weeks after receiving the purchase order	A plan comprising of the following: <ul style="list-style-type: none"> <li>• Shipping timeline</li> <li>• Customs clearance buffer</li> <li>• Installation phases</li> <li>• Risk mitigation plan for potential delays</li> <li>• Provision of factory performance acceptance criteria to be applied</li> <li>• Fully compliant = 100%</li> <li>• Non-compliant with any item = 0%</li> </ul>	20
		<b>Total</b>	<b>100</b>
<b>THRESHOLD: 75%</b>			

Compiled by: Mariaan Avis  
p.p. *vsibeko*

Date: 13 November 2025

  
Approved by: Zanele Khuzwayo

Date: 13 November 2025