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ANNEXURE K

PURCHASER'S GOODS INFORMATION

Scope of work/ Specification of Product or Goods

The scope of work covers the supply and delivery of carbon, hydrogen and nitrogen analyser and ash fusion temperature analyser: The package should include-Instruments analysers, a PC with the Windows operating system, software, installation and operational training and start-up operating supplies as follows:

Carbon, Hydrogen and nitrogen instrument

- The instrument must use a combustion-based technique utilizing independent detectors for each element and sample throughput of 15 samples per hour on a full CHN Analysis.
- The instrument must be compliant to ASTM D-5373, D-5291, D-1552, ISO 29541, and EN 15104
- The Instrument must have a Coal analysis application note detailing the method settings, analysis procedure and typical results with statistics.
- The instrument software must contain real-time service diagnostics including ambient charts of instrument temperatures, pressures, and detector signal; manual control of solenoids and switches; automated leak checks; and network and communications diagnostics.
- The instrument must be able to achieve Analytical Range:
 - o Carbon: 0.02 mg to 175 mg
 - o Hydrogen: 0.02 mg to 17 mg
 - o Nitrogen: 0.02 mg to 300 mg
- Instrument must provide compatibility to an external balance, printer, and Laboratory Information Management System (LIMS) with customizable transport feature supporting file, ethernet, or serial data transporting.
- It must be equipped with autoloader with 30 or more sample position.

Ash Fusion Temperature instrument


- The instrument must have an optional dual-configuration allows for simultaneous analysis of up to 12 samples.
- The instrument must be compliant to ASTM and ISO standards for ash fusibility analysis.
- The Instrument must have a Coal analysis application note detailing the method settings, analysis procedure and typical results with statistics.

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- o Temperature Range: 400 °C to 1500 °C Temperature Precision: 1064 C ±5 °C
- o Temperature Ramp Rate: Programmable from 4 °C to 20 °C/minute
- o Ash Fusibility Determination: Automatic or manual (IT, ST, HT, FT)
- o Analysis Time: Typical cycle time of 4 hours
- o Image Collection: Digital with a resolution of 1280 x 1024 pixels
- o Built-in furnace exhaust with active exhaust hose
- o Built in CO monitor with auditory alarm, gas flow stopped on alarm
- Instrument must provide compatibility to an external balance, printer, and Laboratory Information Management System (LIMS) with customizable transport feature supporting file, ethernet, or serial data transporting.

All test certificates should be submitted upon delivery of material and/or accessories supplied.

Operating manuals and maintenance schedules must be provided for all material and accessories that requires operation and maintenance. The operating manuals and maintenance schedules must be provided upon delivery of material and/or accessories supplied.

Technical data sheets

Test certificates must be submitted for all material and accessories that requires testing before delivery

Delivery place and place of use

The delivery address for Eskom's Research, Testing and Development (RT&D) is Lower Germiston Road, Rosherville, Johannesburg, 2095.

Supplier must notify the Purchaser a week prior to delivery to site, in order for the Purchaser to arrange permits and access to the project site.

The Supplier must provide a safety file for the transport service provider, including details of the Driver and the Vehicle registration number, competencies of the truck and/or mobile cranes, forklifts and riggers, to the Purchaser.

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The Supplier must provide, truck and/or mobile cranes, forklifts and riggers for the loading of the materials at the Supplier's premises

The price schedule

The rates and Prices entered for each item includes for all work and other things necessary for the Supply and delivery of the item.

Item nr	Description	Unit	Quantity	Rate excl VAT	Price excl VAT
1.	Carbon, Hydrogen and Nitrogen analyser The package should include: CHN analyser with a PC with windows operating system, software, installation and operational training and start-up operating supplies.	Each	1	R	R
2.	Ash Fusion Temperature analyser The package should include: AFT analyser with a PC with windows operating system, software, installation and operational training and start-up operating supplies.	Each	1	R	R
3	Total excluding VAT				R
	Value Added Tax @ 15% is				R
	The offered total of the Prices inclusive of VAT is				R

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