
	Technical Evaluation Criteria & Scope of Work	Document Identifier	240-109	Rev	0
		Effective Date	31 May 2024		
		Review Date	May 2029		

Technical Evaluation Criteria - Annexure AB

Research, Testing & Development (RT&D)	Proof to be submitted with the tender	Quantity	Weighting Criteria
Adherence to scope of work			
Supply of Gas as per total requirements: <ul style="list-style-type: none"> 100% scope = 40% 90 % scope = 30% 80 % and less scope = 20% 	Quotation/ returnable	As per the scope of supply	40%
Supplier to provide proof on a Company letter head that they are SANAS accredited or prove traceability according to NIST as far as gas mixtures are concerned, and ISO 9001 certification for industrial gases: <ul style="list-style-type: none"> 100% scope = 20% 90 % scope = 15% 80 % and less scope = 10% 	SANAS accreditation certificate/ example of previous certificate showing traceability to NIST. ISO 9001 certification for industrial gases		20%
Lead time for Industrial gasses: Proof that they can deliver industrial gasses within: <ul style="list-style-type: none"> 48hrs = 10% 60hrs = 5% 84 hrs and more scope = 3% 	Confirmation in a letterhead		10%
Lead time for special gasses: Proof that they can deliver speciality gasses (gas mixtures) within: <ul style="list-style-type: none"> 4 weeks = 10% 6 weeks = 5% 8 weeks or more = 3% 	Confirmation in a letterhead		10%
Delivery to Laboratories sites (Rosherville, Rotek, Witbank, Klerksdorp, Bloemfontein, Brackenfell, Pietermaritzburg, Port Elizabeth and Seshego): <ul style="list-style-type: none"> 100% laboratory site = 20% 90% laboratory site = 15% 80% laboratory site and less = 10% 	Confirmation in a letterhead		20%
Total Score			100%
Threshold			80%

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Scope of Work: Annexure AD

Gas suppliers to supply and deliver industrial & specialty gases as well as the repair and maintenance of gas lines including parts on as and when required basis to the laboratories listed below.

Laboratory	Address:
RT&D Rosherville Laboratories: 1. Coal Laboratory 2. Micro and Water Laboratory 3. Petroleum and Sciences 4. Gx laboratories 5. Environment laboratories	Eskom Research & Innovation Centre Lower Germiston Road Rosherville 2022
Petroleum and Fuel Science (Rotek)	Rotek (next to site & switchgear workshop) Lower Germiston Road Rosherville 2022
Petroleum and Fuel Science (Witbank)	Eskom Park Electrical Workshop Watermeyer Street Witbank 1035
Petroleum and Fuel Science (Pietermaritzburg)	Eskom 1 Portland Road Mkondeni Pietermaritzburg 3021
Petroleum and Fuel Science (Port Elizabeth)	Eastcape training Centre Workshop 2 Spondo Road Struan dale Port Elizabeth 6001
Petroleum and Fuel Science (Brackenfell)	Eskom Eskom Road Brackenfell Cape Town 7535
Petroleum and Fuel Science (Bloemfontein)	Transnet Loco Street East End Bloemfontein 9001
Petroleum and Fuel Science (Klerksdrop)	Eskom 22 Goueweg Townland Klerksdrop 2571
Petroleum and Fuel Science (Polokwane)	Eskom

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	55 Moletjie Street Seshego Polokwane 0742
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Specification of Product or Goods

Adherence to the specific quality standard that is set out by Department of Energy (DoE) for each commodity will be crucial and adherence to strict regulatory requirements for industrial gases, medical gases and LPG, which are hazardous commodities as stipulated by Medicines Control Council (MCC) and DoE. The supplier and Eskom health and safety requirements will be incorporated to ensure compliance.

Currently Eskom does not have a signed specification but it uses the suppliers' specifications to source the products that are used at the labs. Below are the high-level definitions/specifications which Eskom uses:

Hydrogen Gas: It is a colourless, odourless, flammable gas. It is supplied as a permanent gas at high pressure in metal cylinders and it is used for cooling the generator.

Nitrogen gas: It is a colourless, odourless, non-toxic and almost totally inert gas comprising approximately 79% by volume in air. It is non-flammable and will not support combustion. Nitrogen is supplied in cylinders as a high pressure gas, or in insulated containers as a liquid. It is used for fire separation.

Oxygen gas: odourless and generally considered non-toxic at atmospheric pressure. It does not burn, but supports and accelerates combustion. It is used for chemical dosing or demineralisation of water and also in the medical treatment of respiratory disorders.

Acetylene gas: is a highly flammable colourless gas of distinct odour. The high solubility of acetylene in acetone enables it to be supplied dissolved in acetone. Cylinders are filled with porous material which carries the acetone and is used in the process of water purification as well as welding.


Carbon dioxide gas: an odourless, colourless, non-toxic, non-flammable gas supplied as high pressure liquefied gas in metal cylinders. It is used to purge the generator of hydrogen during filling and de-gassing turbines.

Liquefied petroleum gas (LPG): It is a mixture of propane and butane with small concentration of propylene. It drives processes and products which range from those that consume thousands of tons a week at industrial sites to those in which only a small amount of gas is used in the recreational arena. In Eskom LPG is also used for gas is used for fuel oil burner start-up by Generation at the power stations. Nitrogen is used for vertical spindle mill loading systems and for accumulator bladders. It can be used everywhere, like kitchen, and for sweeping at the stations.

Sulphur hexafluoride (SF6): It is used in electrical apparatus employing SF6 as insulation and/or interruption medium.

Helium gas: it is the only substance that can be practically used for deep low

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temperature refrigeration. It is also used for tracing the leaks on pipe.

Propane gas: It effectively maintains the efficient supply pressure of the cylinder even though the cylinder will naturally cool as gas is drawn off.

Special gas: It is a mixture of various gases and is mainly used for testing equipment calibration and for different types of analysis in the laboratory.

Special requirements:

- The appointed supplier must be SANAS accredited for special gas or prove traceability according to NIST and or ISO 9001 certified for other industrial gases.
- Each gas bottle must be accompanied by a certificate specifying tolerances and the concentration of the gas.
- SDS to be supplied for the Gases specified for the duration of the contract.

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