

SCOPE OF WORK & TECHNICAL CRITERIA

SERVICE, MAINTENANCE AND REPAIRS OF GAS GENERATORS (HYDROGEN, NITROGEN AND ZERO AIR GENERATORS)

SCOPE OF WORK AND TECHNICAL EVALUATION

The following tasks will be done as part of the order:

1. Scope of Work

To Establish A Five (5) Year Contract For Service, Maintenance And Repairs Of Gas Generators (Hydrogen, Nitrogen And Zero Air Generators) To All Nine (9) Petroleum Sciences Laboratories on as and when required basis.

- Services will be required either on site or at the premises of the supplier.
- Services will be required for the list of equipment in table 1 below.

1.1 Additional requirements

1.1.1 Supplier must quote on the following where applicable for all the laboratories:

- Travel time per hour
- Travel Rate per kilometre
- Labour rate (certified technician)
- Delivery charges

1.1.2 Supplier must:

- Provide service to all the PS Laboratories.
- Respond to the request within 48hrs of purchase order issue.
- Provide list of spares.
- Supplier to provide a report after each maintenance/repair done in each laboratory.

List of equipment and sites

TYPE OF GENERATOR	Serial Number	Model Generator	Site Name	Condition	Error	Procured Date
AIR ZERO	2330112-0033-1118.V1	UZAG-1/1	Klerksdorp	Not working - need service	Low pressure	April 2018
HYDROGEN	0462-1004-1118	WM-H2-400	Klerksdorp	Not working - need service	Low pressure	April 2018
AIR ZERO	2330112-0036-1218.V1	UZAG-1/1	Witbank	Not working - need service	Low inlet pressure	April 2018
HYDROGEN	0462-1003-1118	WM-H2-400	Witbank	Not working - need service	Low inlet pressure	April 2018
AIR ZERO	2330112-0037-1218.V1	UZAG-1/1	Rotek	Not working	Not enough pressure	April 2018
NITROGEN		NM32LA	Gauteng - Rosherville	Working	Not Applicable	2015
AIR ZERO	2330112-0031-1118.v1	UZAG-1/1	Bloemfontein	Not working	Need Catalist - due for 5 year service	2016
HYDROGEN	0510-0008-1317	PAR-H2-400	Bloemfontein	Working	Service	2016
AIR ZERO	2330112-0035-1218V1	UZAG-1/1	Brackenfell	Not working	Low inlet pressure- catalyst goes up to 45 degree C	April 2018
HYDROGEN	0510-0009-1317	PAR-H2-400	Brackenfell	Not working	Error 15- PS failure damage	April 2018
AIR ZERO	2330112-0032-1118V1	UZAG-1/1	Port Elizabeth	Not working	No outlet pressure	April 2018
HYDROGEN	0510-0010-1317	PAR-H2-400	Port Elizabeth	Not working	Replace dioniser	April 2018
AIR ZERO	2330112-0034-1218.V1	UZAG-1/1	Pietermaritzburg	Not working	Need service	April 2018

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HYDROGEN	0510-0006-1317	PAR-H2-400	Pietermaritzburg	Not working	Need service	April 2018
AIR ZERO	2330112-0030-1118.V1	UZAG-1/1	Seshego	Not working	Need service	April 2018
HYDROGEN	0510-0007-1317	PAR-H2-400	Seshego	Not working	Need service	April 2018

5.2 Instrument service, maintenance, repair and provision of consumables to be delivered to the following addresses:

1. PS Laboratory (Eskom Rotek Industries)
Oil Lab
Eskom Rotek Industries – Next to Site & Switchgear (Workshop)
Lower Germiston Road
Rosherville
2022
2. PS (Witbank)
Oil Lab
Eskom Park - Next to Electrical Workshop
Watermeyer Street
Witbank
1035
3. PS Laboratory (Pietermaritzburg)
Oil Lab – Eskom
1 Portland Road
Mkondeni
Pietermaritzburg
3021
4. PS Laboratory (Port Elizabeth)
Eskom Oil Lab
c/o Eastern Cape Training Centre
Workshop 2
Spondo Road
Struandale
Port Elizabeth
6001
5. PS Laboratory (Brackenfell)
Oil Lab
Eskom Road
Brackenfell
Cape Town
7535
6. PS Laboratory (Bloemfontein)
Oil Lab Eskom
C/o Transnet Depot
Loco Street
East End
Bloemfontein
9001

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7. PS Laboratory (Klerksdorp)
Oil Lab – Eskom
22 Goueweg Townsland
Klerksdorp
2571

8. PS Laboratory (Seshego) Polokwane
Oil Lab – Eskom
53 Moletsi Street
Seshego
Polokwane

9. PS Laboratory (RTD) Gauteng
Eskom Research and Innovation
Lower Germiston
Rosherville
2022

2. Specification of Product or Goods

2.1 Provision of maintenance and spares for Hydrogen, Nitrogen and Zero Air Generators for a period of 5 years.

Item no.	Maintenance & Spares	Spares / Maintenance	Estimated Quantities	Frequency per year
1.	H2 Generator	Annual Service, maintenance & Spares	8	1.0
Spares for H2 Generator				
1.1	WATER.PUMP.001, Water pump	H2-Spares for service/ maintenance as and when required	4	1
1.2	WATER.DSIN.003, Cleaning kit for water tank and water tubing. Inspect	H2-Spares for service/ maintenance as and when required.	4	1
1.3	WATER.DSIN.003, Cleaning kit for water tank and water tubing. Maintain	H2-Spares for service/ maintenance as and when required	4	1
1.4	WATER.GLS.003, Water separator	H2-Spares for service/ maintenance as and when required	4	1
1.5	FIL.DRYER.WM.002.B, Double desiccant column Hydrogen dryer	H2-Spares for service/ maintenance as and when required	4	1
2.	H2 Generator	Ad-hoc service	8	2.0
3.	H2 Generator Generator - Filter	Spares (Material)	8	3.0
4.	Ultra Zero Air Generator (UZAG)	Annual Service, maintenance & Spares.	8	1.0
Spares for Ultra Zero Generator				

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4.1	COMP.SB.005, Retrofit kit compressor Gast single head for models UZAG 1.5 to 6 L/min with compressor, each.	Air Gen-Spares for service/ maintenance as and when required	4	1
4.2	SK.UZAG-1.SC.4000 x 2, Filters kit	Air Gen-Spares for service/ maintenance as and when required	4	1
4.3	PNE.VALV.003, Pneumatic solenoid valve	Air Gen-Spares for service/ maintenance as and when required	4	1
4.4	COMP.MOTOR.005, Air compressor	Air Gen-Spares for service/ maintenance as and when required	4	1
4.5	COMP.MOTOR.005, New air compressor installation	Air Gen-Spares for service/ maintenance as and when required.	4	1
4.6	COMP.SVKM.005, Retro-fit kit for the motor	Air Gen-Spares for service/ maintenance as and when required.	4	1
4.7	FIL.CAT.001, Catalyst	Air Gen-Spares for service/ maintenance as and when required.	4	1
5.	Ultra Zero Air Generator (UZAG)	Ad-hoc service	8	2.0
6.	Ultra Zero Air Generator (UZAG)	Spares	8	3.0
7.	Nitrogen Generator LN30	Annual Service, maintenance & Spares (Service)	1	1
		Ad-hoc repairs, maintenance & All spares	1	1
8.	General costing		Total per item	Frequency per year
8.1	Rate per km	Rate		
8.2	Travel time	Travel time		
8.3	Labour rate per hours (Certified technician)	Labour		
8.4	Delivery charges	Delivery		
8.5	Flight cost where applicable			

3. TECHNICAL EVALUATION CRITERIA

Below requirements to be submitted with the Tender Document

Technical Criteria	Description	Proof	Score allocation (%)	Total Score (%)
Availability of Spares and consumables	Suppliers confirm availability of spares /parts as per the scope of work based on maintenance required.	Detailed List of spares	20	20
Competency	The supplier to prove that he can services and	Provide CV and competency certificates for	20	20

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	repair Genius, FDGSi & Peak Scientific gas generators.	instrument technicians on this equipment. Provide CV and no competency certificate	5	
On-site service and repairs	Supplier must be able to do repairs and maintenance (service) on PS sites as and when required.	Confirm commitment on company letterhead all (9) of sites	15	15
		Only at supplier site	5	
Turnaround time	The supplier must respond to request for repairs within 48 hours of receiving the purchase order number.	Confirm commitment on company letterhead Respond time for repairs. <2 days	15	15
		>2 or =4 days	5	
Experience	Relevant experience of not less than three (3) years on working with Genius, FDGSi and Peak generators.	Submit three (3) letter/s of reference from customer/s where related services were rendered.	20	20
		Submit one (1) letter/s of reference from customer/s where related services were rendered.	10	
Distributor/OEM	Supplier must be an approved distributor for this equipment. If not proof, must be submitted that the original distributor will support the tenderer with the sale of spares.	Submit a letter indicating that the supplier is the Approved Distributor/ OEM	10	10
		Submit a letter from OEM/ approved Distributor that they will support tenderer with sale of spares and consumables.	8	
Total				100%
Minimum Threshold				75%

3.1 EVALUATION CRITERIA FOR SHEQ

Below are Safety requirements to be submitted with the Tender document.

SHEQ evaluation criteria	Submitted (Yes/No)
• Baseline SHE Risk Assessment.	
• Signed 37(2) Agreement.	
• Annexure B - Acknowledgement of Eskom's rules and requirements	
• Valid Letter of Good Standing	
• SHE Policy.	
• OHS Policy	

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Below are Environmental requirements to be submitted with the Tender document.

SHEQ evaluation criteria	Submitted (Yes/No)
• Acknowledgement of Eskom's rules and requirements.	
• Letter of Good Standing (COIDA)	
• Aspect and Impact Register	
• Environmental Policy	

Below are Quality requirements to be submitted with the Tender document.

SHEQ evaluation criteria	Submitted (Yes/No)
• Quality Policy	
• Quality Objectives	
• Quality Method Statement	
• Form A	
• Control of External Provided Processes, Product and Services.	
• Documented Information Roles, Responsibilities and Authorities – Organogram.	

Compiled by: **Mr. Makuka Setjie**

Date: **24 July 2024**

Signature: _____

Approved by: **Ms. Zanele Khuzwayo**

Date: **24 July 2024**

Signature: _____