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**PRICING SCHEDULE – FIRM PRICES
(PURCHASES)**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder.....	Bid number 19/1/9/84TD (23)
Closing Time 11:00	Closing date: 2023-12-14

OFFER TO BE VALID FOR **90** DAYS FROM THE CLOSING DATE OF BID.

Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
1	9825T05084342	Supply, Delivery and Commissioning of GC-MS instruments	1		
2	9825T05085609	Supply of firmware and software for GC-MS	1		
3	9825T05085377	Supply of workstations (PC /Laptop)	1		
4	9825T05085379	Supply of printer	1		
5	9825T05085378	Supply of reference libraries	1		
6	9825T05083985	Supply and installation of Anti-Virus protection for analytical instruments data workstations	1		
7	9825T05085385	Supply of Certified Reference Material	1		
8	9825T05085610	Supply, Delivery and Installation of Uninterruptible Power Supply (UPS)	1		
9	9825T05085608	Supply and Installation of gas lines for instruments	1		

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Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
10	9825T05085604	Training for GC-MS instruments	1		
11	9825T05085451	Licensing fees for software	1		
12	9825T05085611	Validation of software for GC-MS	1		
13	9825T05085386	System validation-Installation Qualification, Operational Qualification and Performance Verification (IQ/OQ/PV)	1		
14	9825T05085605	Maintenance and repairs for GC-MS instrument	1		
15	9825T05030161	Service, Maintenance and repairs of instrument printer	1		
16	9825T05083995	Service and maintenance of gas lines	1		
17	9825T05083987	Major service with calibration for GC-MS (OQ-PV)	1		
18	9825T05083988	Minor service for GC-MS instruments: Functional Verification (FV)	1		
19	9825T05084011	Replacement of batteries for instrument UPS system	1		
20	9825T05084004	Labour hours for major ad-hoc maintenance of GC-MS instruments	1		
21	9825T05083999	Labour hours for minor ad-hoc maintenance of GC-MS instruments	1		
22	9825T05084010	Service of instrument UPS system	1		
23	9825T05083976	Upgrade GC-MS firmware and software.	1		

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Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
24	9825T05083980	Upgrade of GC-MS workstations (PC /Laptop)	1		
25	9825T05084975	Update/upgrade of electronic reference libraries, GC-MS	1		
26	9825T05083986	Licensing fees for software upgrade	1		
27	6640T05085607	GC-MS tool kit	1		
28	9825T05085606	Additional GC-MS maintenance training (Cleaning of ion source)	1		
29	9825T05085612	One(1) year Warranty for GC-MS	1		
30	9825T05085613	Five(5) years extended warranty for GC-MS	1		
31	9825T05040538	Auto injector tower, GC-MS replacement module	1		
32	6640T05048794	Column Nut 1.2mm, MSD interface, 2/pack	1		
33	6640T05048795	Column Nut, GC Inlet interface, 2/pack	1		
34	6640T05082079	Carrier Gas filter	1		

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(PURCHASES)

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IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder.....	Bid number 19/1/9/84TD (23)
Closing Time 11:00	Closing date: 2023-12-14

OFFER TO BE VALID FOR 90 DAYS FROM THE CLOSING DATE OF BID.

Required by: **DIVISION: DETECTIVE AND FORENSIC SERVICES**

At: FORENSIC SCIENCE LABORATORY, 270 PRETORIA ROAD

COUNTRY OF MANUFACTURE

- Brand and model
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- Delivery basis

*Delivery: Firm/not firm

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**
(delete whichever is not applicable for this tender).

a) ~~The applicable preference point system for this tender is the 90/10 preference point system.~~

b) The applicable preference point system for this tender is the **80/20** preference point system.

c) Either the **90/10 or 80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20	or	90/10
$Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$ or		$Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$
Where		
Ps	=	Points scored for price of tender under consideration
Pt	=	Price of tender under consideration
Pmin	=	Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$Ps = 80 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or} \quad Ps = 90 \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Persons historically disadvantaged on the basis of race with at least 51% ownership	5 points	
Persons historically disadvantaged on the basis of gender with at least 51% ownership by woman	5 points	
Persons with at least 51% ownership who are youth	5 points	
Persons historically disadvantaged by unfair discrimination on the basis of disability with at least 51% ownership	5 points	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole proprietor
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

Introduction:

The Section Scientific Analysis has identified the need for the replacement of a GC-MS systems that is proposed for boarding process as a result of it no longer being supported by the supplier. The instrument will be used in the analysis of environmental pollution exhibits which include amongst others pesticides, herbicides as well as the comparison of fuels and oils in theft cases.

This specification calls for the supply and delivery of a gas chromatograph mass spectrophotometer to be used in the Scientific Analysis Section, of the Forensic Science Laboratory.

Note: The bidder must indicate in **hand writing** with a **Comply** for compliance with the requirements and a **Not Comply** for non-compliance with the requirements in the relevant column of every specification field. Failure to do this must be interpreted as non-compliance and must result in the disqualification of the bid

Do not make a tick (✓) or an (X) on the specified area.

Do not put a Yes or No on the specified area.

Do not leave a blank space.

Do not retype the bid document. All bid supporting documents must be written in English.

Brig JS Moweta	Co H I Espach	LtCol PL Raliphada	LtCol AK Maleke	LtCol P Moshando	Capt P Sixinti
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BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

Section A: General Technical Requirements

1.	General summary requirements of the instrument	COMPLY/DO NOT COMPLY
1.1	The Scientific Analysis Section of the Forensic Science Laboratory (FSL), SAPS, requires the supply and installation of integrated Gas Chromatograph Mass Spectrometer (GC-MS) instrument including service and maintenance for a five (05) year period for the Scientific Analysis Section of the Forensic Science Laboratory 270 Pretoria Road Silverton Pretoria.	
1.2	The GC-MS instrument is primarily required for the analysis of environmental pollution exhibits which include amongst others pesticides, herbicides, polycyclic aromatic hydrocarbons (PAHs), Polychlorinated biphenyls (PCBs) as well as the comparison of fuels and oils in theft cases. The required instrument must be robust and be suitable to be used continually for 24 hours per day, seven (07) days a week without any problems.	
1.3	The support, by experienced service personnel, must be readily available. A factory trained service engineer must be able to be on-site to repair the problem or address the issue within three (03) working days, during office hours (7:30 to 16:00 on week days) of the service request made to the supplier.	

Brig JS Mowela

Col HJ Espach

LtCol PL Raliphada

LtCol AK Maleke

LtCol P Mafuna

Capt P Sixinti

BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

1:	General summary requirements of the instrument	COMPLY/DO NOT COMPLY
1.4	The installation, service and maintenance personnel must be factory trained on the specific model of instrument on offer and written proof from the manufacturer confirming this must be handed in as part of bid documentation.	
1.5	A minimum of two (02) service engineers must be available to perform services. Details of relevant qualifications and experience of the locally available service personnel on the specified system must be provided with this bid reply. Service technicians must be able to perform applications, hardware, software and maintenance.	
1.6	Due to the extreme productivity demand it is essential that efficient support for the lifetime of the equipment, which is expected to be at least ten (10) years, must be readily provided by the supplier.	
1.7	The products offered must have a useful and fully supported life of at least ten (10) years after commissioning. The bidder must provide a written statement from the original instrument manufacturer confirming this which must be submitted as part of bid documentation. The supplier commits to supplying original parts and will endeavor to keep the instrument operational for the full period.	
1.8	Bid pricing including VAT must be provided for the supply, installation, commissioning and training as well as service and maintenance as per bid pricing schedule.	

Brig JS Mowela

Col HJ Espach

LtCol PL Raliphada

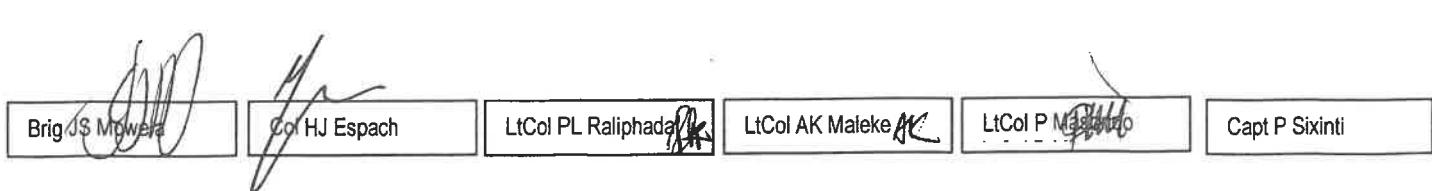
LtCol AK Maleke

LtCol P Mendo

Capt P Sixinti

BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

1	General summary requirements of the instrument	COMPLY/DO NOT COMPLY
1.9	A scheduled, compulsory briefing session must be attended by all prospective bidders. Failure to attend these meeting will disqualify a bidder.	
1.10	A brochure or documents stating all technical specifications of product on offer must be submitted with bid documents.	
1.11	It is the responsibility of every bidder to ensure that the site of operation is suitable. The necessary ancillary items must be included and/installed to meet the operation requirements of the equipment and the costs thereof must be included in the bid amount.	
1.12	The instrument must be new and be the latest model of the offer. The bidder must be in a position to provide the SAPS with an operational demonstration of the instrument being offered or a similar model on request in South Africa.	



 Brig S Mowera Col HJ Espach LtCol PL Raliphada LtCol AK Maleke LtCol P Mzamiso Capt P Sixinti

BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

2. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
2.	Gas Chromatograph	
2.1	GC control:	
2.1.1	The GC must be microprocessor-controlled and must be fully integrated with the MS and data system software.	
2.1.2	Concurrent access to all GC temperature, pressure parameters and programs under data system control must be possible through the keyboard and alphanumeric display of the GC. All set points, functions, error messages, diagnostics and GC messages must be indicated on the GC and alphanumeric display.	
2.2	A self-diagnostic program that will enable the following continuous diagnostic checks:	
2.2.1	A built-in timer that acts as a stopwatch, run time indicator and lapsed time indicator	
2.2.2	Analysis method/s to include injector, column, oven and autosampler parameters.	
2.3	All injector parameters; including:	
2.3.1	Split ratios, timing and duration.	
2.3.2	Inlet pressure, back-pressure and flows.	
2.3.3	Temperature.	

Brig JS Morela

Col HJ Espach

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BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

2.1	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
2.4	All column parameters, including:	
2.4.1	Column dimensions	
2.4.2	The GC data system should allow for column dimensions to be re-calculated.	
2.4.3	All flows and pressures.	
2.5	The Gas Chromatograph must have ambient temperature and pressure compensation feedback for electronic pneumatic control for all inlets and detectors.	
2.6	The Gas Chromatograph must have a (3) channel module of auxiliary EPC (Electronic Pneumatic Control) to be used for flow control of external sampling devices OPTIONALLY available.	
2.7	The Gas Chromatograph must have a Gas Phase micro fluidics capability to provide automated Dean's Switching, effluent splitting between the mass spectrometer and another detector or the ability to change the column without venting the mass spectrometer OPTIONALLY available.	

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Brig JS Mowha

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LtCol PL Raliphada

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LtCol AK Maleka

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LtCol P Maboko

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Capt P Sixinti

BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

2. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
2.8	The Gas Chromatograph must have a hydrogen safety shutdown system that monitors the hydrogen flow and shuts down the gas flows and heaters if a leak is detected. The Gas Chromatograph should have oven explosion protection built into the oven door. The Mass Spectrometer analyzer should not fragment in the event of a hydrogen deflagration.	
2.9	All oven parameters must be accessible and programmable; including:	
2.9.1	Must have an oven temperature programming capability with at least twenty/twenty one temperature ramps (negative ramps are allowed) and intermediate isothermal segments.	
2.10	All autosampler parameters must be accessible and programmable; including:	
2.10.1	Vial location.	
2.10.2	Syringe wash routine, including solvent reservoirs and number of rinses.	
2.10.3	Sample pump, pull-up speed and volume.	
2.10.4	Hot needle injection and sample injection speed.	
2.11	Built-in clock time programming must be available. Programmable operations must include loading of methods and sequences, start of analysis or sequence of analysis and performing blank or column compensation runs at programmed clock times.	

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BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS CHROMATOGRAPH-MASS SPECTROMETER (GC-MS)-HEADSPACE INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS SECTION: GAUTENG (PRETORIA)

2.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
2.12	The GC must incorporate a run time log to report any deviations from the method during a run, including user-initiated changes or failures in set point control of parameters or changes to instrument conditions, e.g. Opening of the oven door. The run log records must be accessible from the GC-keyboard or the data system file and must include the time and date of an occurrence. It must be simple to prove whether any such changes to instrument conditions occurred while specific samples were being analysed on the instrument, based on the specific file names of samples analysed and not only the instrument time.	
2.13	The instrument must have an inherent counter of total number of system analyses which cannot be reset by the user and is not data system based.	
2.14	The GC must be equipped with a start switch to allow the start of the injector and GC programs, as well as the MS programs and data acquisition upon injection of the sample.	
2.15	All carrier gas lines must be equipped with electronic pressure or flow controllers.	

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LtCol P Mondo

Capt P Sixinti