

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)

9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.19	The software must incorporate a comprehensive Macro programming commands set that can be utilized for simple reporting and data analysis. An instruction manual on Macro commands and -programming must be included as well as have the supplier create a Macro as per end user request.	
9.20	The software must include a comprehensive computer based training module or additional software that covers all aspects of GC-MS operation for training purposes	
9.21	The software must include a peak-purity-type algorithm whereby overlapping peaks in the chromatogram that might affect library search or quantification results can be detected. The software must be able to subtract any undesired component from the spectrum.	
9.22	The software must allow:	
9.22.1	Automatic and Standardised target tuning and mass calibration of the mass selective detector.	
9.22.2	The tuning program must include a number of specific automatic tuning programs such as for high sensitivity, high mass region, Environmental Protection Agency (EPA) method compatible tuning and user defined tuning.	

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LtCol PL Raliphada

LtCol AK Maleke

LtCol P Mabundo

Capt P Sixinti

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9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.23	Software must be able to mass calibrate without changing the tuning parameters.	
9.24	Software must be able to save all tuning and mass calibration parameters, including creation date, in a file/files meeting the following criteria:	
9.24.1	Files must be save-able on a user-specifiable subdirectory and a user specifiable fixed drive with no limitation to the number of files and must not be overwritten / erased without user consent.	
9.24.2	Data must be producible in report format with the creation date and time included automatically. Copying or transferring this data must not result in the date of the file/directory being changed.	
9.24.3	Tuning files must be non-editable.	
9.25	The GC-MS must allow the downloading and implementation of tuning parameters from previously saved tuning files.	
9.26	The building of an unlimited number of separate and independent data acquisition methods (Auto-sampler, GC, and Interface and MS parameters) must be possible.	
9.27	Mass spectra must be automatically and continuously recorded onto the hard disc during a data acquisition.	
9.28	Automated quantitative analyses must be available with the following software capabilities:	

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9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.28.1	Independent integration parameters for each compound.	
9.28.2	The use of multiple internal standards, with calibration curves to be fitted either through the linear, logarithmic or exponential calculations.	
9.28.3	The exclusion of data points from calibration curves in a manner that excludes specific data point from calculations, but does not omit it from the calibration report.	
9.28.4	The update of retention times and response factors when calibrating.	
9.29	The use of multiple detector-response values corresponding to a single calibration value in a multi-point calibration curve.	
9.30	The user must be able to create own reference libraries using the software.	
9.31	The mass spectrometer data system must have an integrated module (e.g. retention time-locking) for analyzing target compounds in complex matrices allowing the analyst to get the same retention times from day to day. The module must not electronically alter the recorded data post-analysis but must enforce pneumatic changes altering flow rate pre-analysis.	
9.32	The software must enable library search capabilities for up to at least fifty (50) chemically significant ions per spectrum.	

Brig JS Molela

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LtCol PL Raliphada

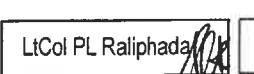
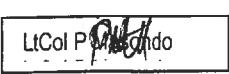
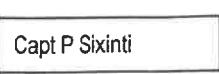
LtCol AK Maleke AK

LtCol P Dlamini

Capt P Sixinti

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9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.33	The library search program must provide different searching capabilities such as for Purity, Fit and Reverse-Fit.	
9.34	The software must allow the mass spectra from all peaks or specific peaks in a chromatogram to be searched automatically. Results can then be obtained in a summary or detailed report which can include chemical structures.	
9.35	The software must allow library searches to be conducted on user-defined mass ranges of obtained mass spectral data.	
9.36	The mass spectral library database must be searchable for specific compounds on criteria such as molecular mass, compound name, CAS registry number and molecular formula without having the mass spectral data available. Mandatory	
9.37	Specific library entries must be printable without exiting the library.	
9.38	The software must be designed in such a way as to ensure that all data files in a sequence are stored in the specified directory, even if the operator is working on a different directory or drive from the controlling system.	

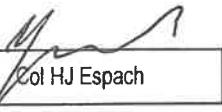
     

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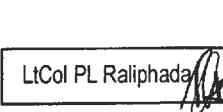
9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.39	The software must be able to load and analyse mass spectral and other chromatograms from detectors such as ECD and NPD simultaneously. The software must be able to align the MS and other chromatograms automatically to compensate for any time difference between the two systems. Peak detection can be optimised independently for the two different detectors.	
9.40	Complete manual sets and original software diskettes for all software must be included upon installation	
9.41	All application programs, including data management, quantification, library searching and the creation of reports in the GC-MS-controlling software as well as other software packages must be available during data acquisition.	
9.42	All screens in the GC-MS controlling software must be easily printable.	
9.43	A full mass spectrum for any specific scan in the chromatogram must be displayed in less than one (1) second.	
9.44	When a list of data files is requested to enable the selection of a specific data file, it must not take more than 2 seconds to obtain the list.	
9.45	Compatibility must include:	



 Brig JS Mowela



 Col HJ Espach



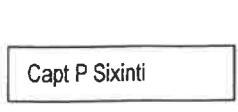
 LtCol PL Raliphada



 LtCol AK Maleke



 LtCol P Matando



 Capt P Sixinti

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9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.45.1	Raw data files must be able to be transferred without manipulation or modification between the two data systems by LAN, Solid state drives or DVD/CD-Rom.	
9.45.2	The data files, method files and sequence files from either system must be able to be implemented, displayed, manipulated and reduced on both the existing and proposed new data system	
9.45.3	The Wiley Mass Spectral Database and the NIST Structures Library must be provided and be compatible with the new GC-MS systems.	
9.46	The software must include the ability to perform retention time adjustment (e.g. retention time locking), which allows the operator to characterize and "lock" retention times for selected compounds against instrument parameters allowing automatic compensation of retention time vs. instrument parameters.	
9.47	The GC-MS must have integrated software control of the sampler injectors via the GC-MS data system software.	
9.48	The mass spectrometer data system must have a deconvolution and reporting software module that combines the data results with the NIST library and AMDIS software search for target compounds into a single report.	
9.49	The following software and hardware requirements are valid:	

Brig JS Moreira LtCol HJ Espach LtCol PL Raliphada LtCol AK Maleke LtCol P M Sondo Capt P Sixinti

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9.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
9.49.1	Suitable software (with licences) must be supplied to enable the following:	
9.49.1.1	Operating system (minimum Windows 10).	
9.49.1.2	Newest version of GC-MS operating software.	
9.49.1.3	One copy of latest software version mass spectral libraries included upon installation: NIST library / Wiley library/ Pfleger-Maurer-Weber library / Wiley Designer Drug Library,Fuel/Diesel library and Pesticides and Herbicides library.	
9.49.2	Software shall be included which is specifically intended for the purpose of deconvolution of collected data.	
9.50	The installation must include the latest version of Microsoft Office Professional.	

10	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
10.	Spare parts and Consumables	
10.1	All the below-mentioned, must be supplied for each of the provided systems in addition to those items specified above:	

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10.1.1	A high capacity cartridge gas purifier installed in the Helium line with the relevant indicators for contamination integrated into the cartridge. An indicating trap type to indicate when the capacity of the cartridge of the Helium purifier has been exceeded	
10.1.2	Two additional column nuts and two additional interface nuts.	

11. The Bidder shall be responsible for supplying the following:		COMPLY/DO NOT COMPLY
11.	Analytical Options	
11.1	Auto-sampler options:	
11.1.1	Barcode reader available	
11.1.2	The supplied software must accommodate barcode readers.	
11.1.3	Auto-sampler trays:	
11.1.3.1	Auto-sampler trays taking larger vials (e.g. 8ml, 10ml) must be available for the supplied auto-sampler.	
11.1.3.2	The trays must have the option available for heating and cooling.	
11.1.3.3	The standard auto-sampler trays must be available as separately purchasable items	

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12.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
12.	General Requirements	
12.1	The data files must be compatible with storage devices e.g. external hard drives without requiring lengthy manipulation or conversion.	

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Section B: Bidder Responsibilities

13. The Bidder shall be responsible for the following:		COMPLY /DO NOT COMPLY
13.	Training	
13.1	Training should be conducted within three (03) weeks after installation and meet the criteria as specified in the Main Bid Document, comprising of at least 5 days per group. Training is required for a minimum of 20 people, with a maximum of (05) persons per training group.	
13.2	The first cleaning of the ion-source (after installation) must be included and must serve as additional maintenance training.	
13.3	The training must include user- and maintenance training of the system with regards to aspects such as hardware, troubleshooting and software/data management operations.	
13.4	Comprehensive theoretical training on gas chromatography and mass spectrometry must be provided, along with practical training in the use, maintenance and troubleshooting of the specific equipment offered in the bid.	
13.5	Theoretical training shall comprise of 3 full days, with practical training done in no less than 2 full days for each training group.	

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13.	The Bidder shall be responsible for the following:	COMPLY /DO NOT COMPLY
13.6	All learners must be assessed theoretically and practically during training and successful learners must be presented with a certificate of competency. Unsuccessful learners must be given a short overview and allowed another opportunity for assessment.	
13.7	The bidder must provide all learning material on hardcopy and softcopy during training and shall include: Learner training material, instrument and operating manuals Facilitator guide All electronic media presentation by facilitator Assessment guide Learning feedback template	
13.8	The bidder must provide a course report indicating the assessment outcome of each learner; problems or observations made by learners on the feedback template and other aspects that the facilitator chooses to highlight.	
13.10	The Bidder shall supply all consumables required for the training of members on the relevant equipment.	

14.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
14.1	Literature	

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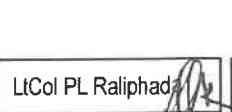
14. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
14.1	Full technical specifications of the equipment offered must be submitted with the bid documents.	
14.2	A comprehensive set of manuals and technical handbooks must be provided for the instrumentation and all software packages upon installation. This may be in the form of hard copies or electronic formats.	

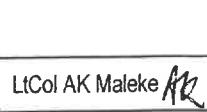
15. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
15.	Site specification and delivery	
15.1	Transport, insurance, delivery and installation requirements which include any necessary gas line plumbing with gas manifolds must be included in the bid amount.	
15.2	An in-line voltage stabiliser and uninterruptible power supply for the systems with two hour battery operation must be supplied.	

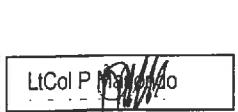
16. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
16.1	Installation and Commissioning	

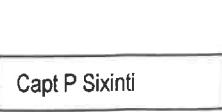
 Brig JC Moleka

 Col HJ Espach

 LtCol PL Raliphad

 LtCol AK Maleke

 LtCol P Matondo

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16	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
16.2	The system must be completely commissioned and operational after completion of full system validation in line with current FSL standard operating procedures. Installation Qualification (IQ) and Operational Qualification (OQ) of all applicable components must be performed. Complete validation reports must be provided to FSL.	
16.3	Certified reference material (CRM) provided by the bidder for verification/validation must be produced in line with the relevant ISO guidelines (ISO 34 / ISO 35 / ISO 80) and proof of this must be submitted with the bid documentation.	(C)
16.4	Reference material used during commissioning and validation must be traceable to the National Metrology Institute (NMI) standard in terms of its indicated purity or gravimetric value indicated by certificate of analysis, provided on commissioning of system.	
16.5	Proof of software validation in the form of certificate from manufacturer or otherwise issued upon commissioning of instrument.	
16.6	The commissioning must include the integration of the relevant instrument computers and data workstations by providing a solution that would enable analysts to access acquired data from the instrument and that are equipped with the relevant software for data analysis.	

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16.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
16.7	Traceable verification standards to be provided by bidder and utilised to verify correct sample data acquisition.	
16.8	All measuring devices, calibrators and performance test materials must be fully traceable to a National Metrology Institute (NMI) and in line with ISO17025:2017.	
16.9	The commissioning and testing must occur at the relevant site and must meet the relevant working hour requirements. All work on a system by relevant technicians must be within SAPS FSL normal office hours, namely 7:30 to 16:00 on week days.	
16.10	After installation it must be demonstrated that the system complies with the specified minimum requirements. A full installation qualification/operational qualification/ performance verification with certification documents issued for each instrument in line with quality management system and ISO17025:2017 must be provided.	(R)

17.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
17.	Additional Requirements	

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17. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
17.1	Total time for delivery, installation and training should not exceed the specified criteria and time frames as per bid specification. Further requirements must be adhered to as communicated by the Section: Scientific Analysis to the successful bidder.	
17.2	A full original tools kit must be provided for user maintenance. A full set of manuals must be provided for the spectrometer and all accessories. All consumables utilised during training and commissioning must be provided by the bidder.	
17.3	The bidder must make expert personnel available, if required to set precedence and acceptance in South African court of law, to give expert evidence on the functioning of the equipment and relevant calibration of components.	

18. The Bidder shall be responsible for supplying the following:		COMPLY /DO NOT COMPLY
18.	Warranty, Service and Maintenance	
18.1	Full and reputable service by trained and experienced service technicians for the usage of any of the items in this document must be readily available in South Africa	

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LtCol P Masendo

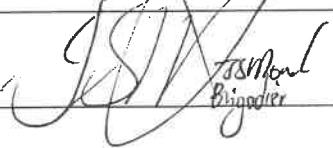
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18.	The Bidder shall be responsible for supplying the following:	COMPLY /DO NOT COMPLY
18.2	A full five (5) years maintenance plan on all components for systems including yearly service and maintenance (ad-hoc corrective and preventative maintenance), OQ/PV and hardware/software updates must be provided for, additional to the stated one year warranty, priced per system.	
18.3	The service level agreement specified in 18.4 must include all peripherals to the instrument (e.g. data workstations, printers) as well as any consumables required in the annual calibration, service and preventative maintenance. The details of all service interventions must be submitted with the bid documents.	

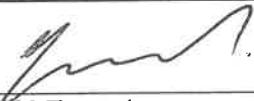
SPECIFICATION APPROVAL

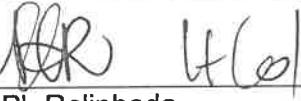
The undersigned has reviewed and approved the specification for the supply, commissioning and training of Gas Chromatograph- Mass Spectrometer (GC-MS) instrument.

Signature:	
Print Name:	JS Mowela
Rank:	Brigadier
Date:	2023-10-02

Brig JS Mowela	Col HJ Espach	LtCol PL Raliphada	LtCol AK Maleke	LtCol P Masopado	Capt P Sixinti
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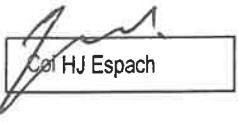
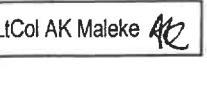
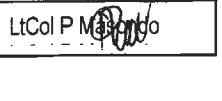
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Signature:	
Print Name:	HJ Espach
Rank:	Colonel
Date:	2023/10/02.

Signature:	
Print Name:	PL Raliphada
Rank:	Lt Colonel
Date:	2023/09/28

Signature:	
Print Name:	AK Maleke
Rank:	Lt Colonel
Date:	2023/09/28

Signature:	
Print Name:	P Masondo
Rank:	Lt Colonel
Date:	2023/09/30

Brig JS Mowela		LtCol PL Raliphada 	LtCol AK Maleke 	LtCol P Masondo 	Capt P Sixinti
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**BID SPECIFICATION FOR THE SUPPLY, COMMISSIONING AND TRAINING OF GAS
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INSTRUMENT INCLUDING SERVICE AND MAINTENANCE FOR A FIVE (05) YEAR
PERIOD: AT THE FORENSIC SCIENCE LABORATORY SCIENTIFIC ANALYSIS
SECTION: GAUTENG (PRETORIA)**

Signature:	
Print Name:	P Sixinti
Rank:	Captain
Date:	

Brig JS Mowela

LtCol HJ Espach

LtCol PL Raliphada

LtCol AK Maleke

LtCol P Masendo

Capt P Sixinti



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DEVIATION SHEET: Bid 19/1/9/1/84TD (23)

To all bidders:

Please complete the deviation sheet for all alternative or additional offers made.

Please complete the deviation sheet for all paragraphs in the specification that you comment “**Do not comply**”

Specification paragraph:	
<i>Reason:</i>	_____ _____ _____ _____ _____
 Offered:	_____ _____ _____ _____ _____
 Specification paragraph	
<i>Reason:</i>	_____



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DEVIATION SHEET: Bid 19/1/9/1/84TD (23)

<i>Offered:</i>	
Specification paragraph	
<i>Reason:</i>	
<i>Offered:</i>	



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DEVIATION SHEET: Bid 19/1/9/1/84TD (23)

Specification paragraph	
<i>Reason:</i>	
<i>Offered:</i>	