

## 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

#### 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 **80/20** preference point system.

b) 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
<b>PRICE</b>	80
<b>SPECIFIC GOALS</b>	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

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**

$$Ps = 80 \left( 1 - \frac{Pt - Pmin}{Pmin} \right)$$

Type equation here.

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest 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 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 propriety
- 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:** .....

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**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

This specification calls for the supply and delivery of an X-Ray Diffraction (XRD) spectrometer to be used in the Scientific Analysis Section, of the Forensic Science Laboratory.

The investigation of gender based violence crime was prioritised by SAPS. In many of the gender based violence cases soil analysis is a key evidential material. The XRD is critical in the analysis of soil for comparison purposes. Soil from the crime scene is often collected and then compared to the soil on the exhibits collected from the suspects clothing. This evidence could then prove that the suspect was in contact with the crime scene.

The instrument is further utilised by the Trace Sub-section in the identification of explosives in cash-in-transit bombings. In the recent spate of ATM bombings and cash-in-transit bombings, the XRD was often used to identify the individual components of explosives and thereby assist in linking individual bombings to a certain group of individuals. The XRD is also used for environmental samples such as for asbestos cases.

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

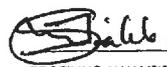
TECHNICAL REQUIREMENTS		
DESCRIPTION		COMPLY OR DO NOT COMPLY
1.	<b>Supply of X-Ray Diffraction Spectrometer (XRD) ICN-CODE: 9825T05087870</b>	
1.1	The Scientific Analysis Section of the Forensic Science Laboratory (FSL) re-quires the supply and installation of an X-ray diffraction spectrometer (XRD) instrument.  The system is required at the Forensic Science Laboratory at 270 Pretoria Road, Silverton, Pretoria, and will be installed in room 523.	
1.2	The instrument must be new and be the latest model of the offer.	

  
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SECTION HEAD: SCIENTIFIC ANALYSIS  
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MATERIAL ANALYSIS :  
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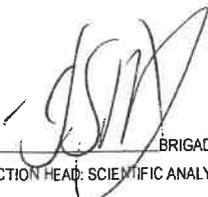
  
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SPEC NO. SAPS 0202/2023

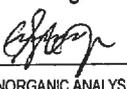
**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

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DESCRIPTION	COMPLY OR DO NOT COMPLY
<b>1. Supply of X-Ray Diffraction Spectrometer (XRD)</b> <b>ICN-CODE: 9825T05087870</b>	
<b>1.3</b> 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. The bidder must conduct site inspection prior to submission of bid documents.	
<b>1.4</b> The X-ray diffraction spectrometer (XRD) must be able to perform X-ray diffraction measurements for the identification of substances typically encountered during the forensic investigation of crime scenes which include those dealing with hazardous waste, illegal dumping, mining related, soil comparisons and others.	
<b>1.5</b> The bidder must be in a position to provide SAPS with an operational demonstration of the instrument in the Republic of South Africa for evaluation and testing purposes.	
<b>1.6</b> The system must be supplied with the necessary latest software and hardware for processing the resulting X-ray diffraction data.	
<b>1.7</b> It must be able to search and match against the International Centre for Diffraction Data (ICDD) Powder Diffraction File (PDF), the latest licenced version of which must be included.	
<b>1.8</b> Due to the extreme productivity demand it is essential that efficient support for the lifetime of the equipment, all components (including circuit boards, software and PC) of the instrument must be available and supported for at least ten (10) years after the delivery and installation date of the instrument.	

  
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**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

DESCRIPTION		COMPLY OR DO NOT COMPLY
1.	<b>Supply of X-Ray Diffraction Spectrometer (XRD) ICN-CODE: 9825T05087870</b>	
1.9	A trained service engineer must be able to be on-site to repair any problems or address any issues within three (03) working days of such a request.	
1.10	Quantitative analysis must be possible with relative intensity ratio (RIR) quantitative analysis methods, as well as full pattern analysis tools.	
1.11	Calibration of the XRD must be done using certified reference material which are traceable to the National Institute of Standards and Technology (NIST), which must be supplied with the instrument.	
1.12	All components must meet the criteria, and especially the warranty criteria as specified in Annexure A of the Government procurement, general conditions as stated in section 15 thereof.	

	DESCRIPTION	COMPLY OR DO NOT COMPLY
2	<b>INSTALLATION X-RAY DIFFRACTION SPECTROMETER : ICN CODE 9825T05087873</b>	
2.1	The installation and testing must occur at the Forensic Science Laboratory 270 Pretoria Road Silverton Pretoria during SAPS normal office hours, 07:30 to 16:00 on Monday to Friday	
2.2	The instrument must be completely installed and operational within 10 working days of the commencement of the installation.	

  
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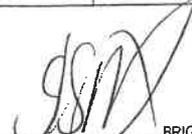
  
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**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

	DESCRIPTION	COMPLY OR DO NOT COMPLY
2	<b>INSTALLATION X-RAY DIFFRACTION SPECTROMETER : ICN CODE 9825T05087873</b>	
2.3	Operation, Performance Qualification and Validation of the instrument must be carried out by the supplier on completion of the installation in order to confirm whether the instrument satisfies its agreed metrics. All of the operational tests must be documented and the certificates must be made available.	
2.4	The installation must be complete and include AC power line, water chiller and gas lines if required for the operation of the instrument. The system will be installed in Room 523 at the FSL, Silverton. A certificate of compliance should be supplied in the event of the installation of AC power line.	
2.5	The installation must include an uninterruptible power supply (UPS) with sufficient backup power to provide the system for at least 30 min with power in the event of a power failure.	

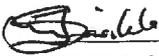
	DESCRIPTION	COMPLY OR DO NOT COMPLY
3	<b>SPECIFICATIONS OF THE DETECTOR</b>	
3.1	The detector must be noise-free with less than 0.0005cps/mm <sup>2</sup> .	
3.2	The detector must have variable detector positioning.	
3.3	The detector must have a maintenance-free design.	
3.4	The following applications must be possible	
3.4.1	Phase ID	

  
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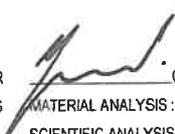
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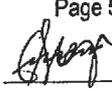
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DESCRIPTION		COMPLY OR DO NOT COMPLY
3	<b>SPECIFICATIONS OF THE DETECTOR</b>	
3.4.2	Phase Quantification	
3.4.3	Texture analysis	
3.4.4	Stress analysis	
3.4.5	Small Angle X-ray Scattering	
3.4.6	High-Throughput Screening	
3.4.7	Micro-XRD analysis	
3.5	The detector must have an energy range of at least 3-15KeV (Cr, Fe, Co and Cu radiation)	
3.6	Energy Resolution: of at least 20% for Cu K-alpha (8.04keV)	
3.7	Maximum Dynamic Range: of at least $10^9 \times \text{SQRT}(t)$ with $t =$ collection time in seconds	
3.8	Radiation Hardness: of at least $10^{12}$ X-ray photons/mm <sup>2</sup> ( $10^{16}$ photons in total)	

DESCRIPTION		COMPLY OR DO NOT COMPLY
4	<b>SPECIFICATIONS OF THE GONIOMETER</b>	
4.1	The goniometer must have a maintenance free drive mechanism/gearings.	

  
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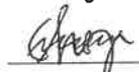
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4.2	The goniometer shall be convertible on-site between theta-theta and theta-2theta geometry to enable measurements of loose powders.	
4.3	The goniometer shall have a minimum angular measurement range of $-10^{\circ} < 2\theta \leq 68$	
4.4	Angle positioning: Stepper motors with optical encoders for optimum scanning speed and positioning precision	
4.5	The minimum step size shall be $0.0001^{\circ}$	
4.6	The reproducibility shall be $\pm 0.0001^{\circ}$	
4.7	An automatic sample changer which can accommodate at least five (05) samples must be included.	
4.8	The measurement of micro samples must be possible. All attachments required for micro sample measurement must be included.	
4.9	Sample rotation must be possible (and sample rotator included).	

DESCRIPTION		COMPLY OR DO NOT COMPLY
5	<b>SPECIFICATIONS OF THE X-RAY GENERATOR</b>	
5.1	The sealed tube X-ray generator must have at least 3 KW capability.	
5.2	X-ray generator current shall at least cover the range of 5 to 60 mA, stability better than $\pm 0.005\%$ at $\pm 10\%$ mains fluctuations, and X-ray generator voltage 20 to 60 kV, stability better than $\pm 0.005\%$ at $\pm 10\%$ mains fluctuations.	

  
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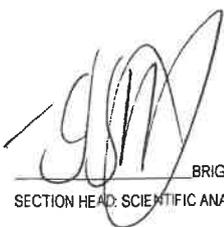
  
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5.3	The kV and mA settings must be continuously adjustable via software.	
5.4	The measurement software must support automatic start-up for X-ray tubes for maximum lifetime and an automatic burn-in routine for new X-ray tubes.	
5.5	The X-ray source must be registered with The Department of Health and record provided to SAPS FSL	

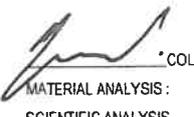
DESCRIPTION		COMPLY OR DO NOT COMPLY
6	<b>SPECIFICATIONS OF THE SAMPLE STAGES</b>	
The system must be able to accommodate the following sample stages:		
6.1	Motorized sample stage, fully software-controlled, with variable sample rotation speed. The sample stage must have high precision sample positioning, enabling sample rotation (PHI) scans. The sample stage can be used in both reflection and transmission geometry mode.	
6.2	Motorized sample stage, fully software-controlled, with variable sample rotation speed, for up to five (05) samples investigated within one batch. The sample stage can be used in both reflection and transmission geometry mode.	
6.3	All sample stages must be exchanged without alignment by the user.	
6.4	The system must offer a fully automatic, real-time recognition and configuration of all sample stages.	



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SECTION HEAD: SCIENTIFIC ANALYSIS

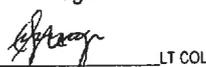
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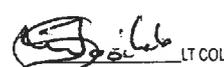
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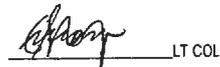
DESCRIPTION		COMPLY OR DO NOT COMPLY
7	<b>SPECIFICATIONS OF THE COMPUTER AND SOFTWARE</b>	
7.1	The detector must be supplied with a computer with the following minimum specifications: a) Microsoft Office Professional (latest release) b) Intel Core™ i7 or better c) 8 GB DDR4 RAM or better d) 2.0 TB SATA hard drive or better e) 23.8" Premium monitor or better f) DVD +/- RW g) Operating System: Windows 10 or later (64 Bit) h) Colour laser printer (which is network enabled)	
7.2	The software must enable data storage without allowing data tampering.	

DESCRIPTION		COMPLY OR DO NOT COMPLY
8	<b>LITERATURE</b>	
8.1	Operating instructions/manual in English must be provided on completion of installation.	

DESCRIPTION		COMPLY OR DO NOT COMPLY
9	<b>EXTENDED MAINTENANCE PLAN ICN CODE: 9825T05087872</b>	
9.1	A full four (04) year extended maintenance of the system as well as the data management system must be provided for, in addition to the stated one year warranty. The four (04) year	

  
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SPEC NO: SAPS 3202/2023

**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

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	extended maintenance will commence immediately after the laps of the standard one (01) year warranty. The annual cost must be stated.	
9.2	All services and repairs must be included in the extended maintenance and be structured as follows: a) At least two (02) maintenance services with all parts/labour included per annum and b) Provision for emergency repairs on an ad-hoc basis:	
9.3	All the labour, travel, consumables and spares for the services and repairs must be included in the extended maintenance plan.	
9.4	The bidder must attend to breakdowns on the instrument with a response time of at least within 72 hours after a call-out is registered.	
9.5	Spectrometer software upgrades and software licence fees during the maintenance period as stipulated for the bid, must be included in the bid amount.	

DESCRIPTION		COMPLY OR DO NOT COMPLY
10	<b>TRAINING X-RAY DIFFRACTION SPECTROMETER (XRD) ICN CODE : 9825T05087871</b>	
10.1	Comprehensive theoretical and practical training, covering operation, maintenance and troubleshooting aspects, must be presented to fifteen (15) trainees by the supplier within 3 weeks after installation of the system at the Forensic Science Laboratory in Silverton Pretoria. The training must be scheduled for at least five (05) working days per group of five (05) trainees. A total of three (03) groups of training sessions must therefore be provided.	
10.2	The learners must be assessed theoretically and practically. Unsuccessful learners must be given an additional opportunity	

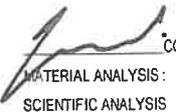
 BRIGADIER SECTION HEAD: SCIENTIFIC ANALYSIS JS MOWELA	 COL MATERIAL ANALYSIS : SCIENTIFIC ANALYSIS HJ ESPACH	 LT COL INORGANIC ANALYSIS: SCIENTIFIC ANALYSIS MEN SHAZI	 LT COL TECHNICAL MANAGEMENT: SCIENTIFIC ANALYSIS P MASONDO	 LT COL PROFILING ANALYSIS: SCIENTIFIC ANALYSIS T MASILELA
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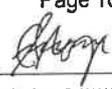
**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

DESCRIPTION		COMPLY OR DO NOT COMPLY
10	<b>TRAINING X-RAY DIFFRACTION SPECTROMETER (XRD) ICN CODE : 9825T05087871</b>	
	to be assessed. Successful learners must be provided with a certificate confirming their competence.	
10.3	The bidder must provide the following learning material on hardcopy and softcopy to the SAPS before the training commences: a) Learners training material b) facilitator guide c) presentation of the facilitator d) assessment guide e) learner feedback template	
10.4	Training costs including consumables needed for the training, travel and accommodation of presenter must be included in the bid price.	

DESCRIPTION		COMPLY OR DO NOT COMPLY
11	<b>COSTS</b>	
11.1	The transport, installation and start-up cost of the complete system must be included in the bid amount.	
11.2	A total bid price, including VAT, for the complete system, must be given with the bid document.	

  
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JS MOWELA

  
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HJ ESPACH

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LT COL  
INORGANIC ANALYSIS:  
SCIENTIFIC ANALYSIS  
MEN SHAZI

  
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SCIENTIFIC ANALYSIS  
T MASILELA

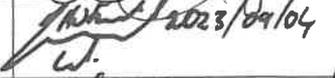
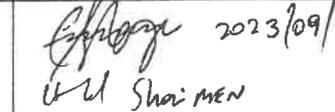
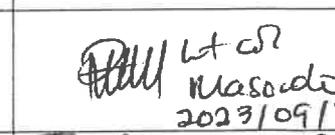
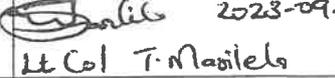
**BID SPECIFICATION FOR THE PROCUREMENT OF A X-RAY DIFFRACTION SPECTROMETER (XRD) INCLUDING COMMISSIONING, TRAINING AND MAINTENANCE FOR A FIVE (05) YEAR PERIOD:**

DESCRIPTION		COMPLY OR DO NOT COMPLY
12	<b>DELIVERY:</b> <b>ICN CODE: 9825T05087843</b>	
12.1	The XRD instrument will be delivered at the Forensic Science Laboratory at 270 Pretoria Road, Silverton, Pretoria.	

**SPECIFICATION APPROVAL**

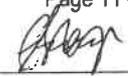
The undersigned has reviewed and approved the specification for the once off procurement of an x-ray diffraction spectrometer (XRD) including commissioning, once off training and maintenance for a five (05) year period.

**THE SPECIFICATION WAS PERUSED AND APPROVED BY:**

RANK	SURNAME & INITIALS	DESIGNATION	SIGNATURE AND DATE
Brigadier	Mowela JS	Section Head: Scientific Analysis Section – FSL	 2023/09/04
Colonel	Espach HJ	Commander: Material Analysis: Scientific Analysis Section	 2023/09/04
Lieutenant Colonel	Shazi MEN	Commander: Inorganic Analysis: Material Analysis: Scientific Analysis Section	 2023/09/04 Lt Col Shazi MEN
Lieutenant Colonel	Masondo P	Commander: Technical Management: Scientific Analysis Section - FSL	 2023/09/04 Lt Col Masondo P
Lieutenant Colonel	Masilela T	Commander: Profiling Analysis: Scientific Analysis Section - FSL	 2023-09-04 Lt Col T. Masilela

  
BRIGADIER  
SECTION HEAD: SCIENTIFIC ANALYSIS  
JS MOWELA

  
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**Annexure A****GOVERNMENT PROCUREMENT****GENERAL CONDITIONS OF CONTRACT  
July 2010****NOTES**

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.