

ANNEXURE A04/A05

Technical Specifications Criteria for Single Syphilis and Dual HIV/Syphilis Rapid Diagnostic Kit Evaluation.

Technical Specifications Compliance	
1. Pre-Award Technical Compliance	Compliance
<p>Pre-Award Technical Compliance: Evidence of Independent evaluations and/or kit lot productions must be provided. The evidence provided must include the following information:</p> <ul style="list-style-type: none">a) Dual HIV/Syphilis and Single Syphilis RDTs: Only dual HIV/Syphilis and single Syphilis RDTs that appear on the WHO LIST OF PREQUALIFIED IN-VITRO DIAGNOSTIC PRODUCTS are eligible for this tender. Verification for pre-qualified products may be checked on this link: https://www.who.int/diagnostics_laboratory/evaluations/PQ_list/en/.b) <i>Quality Management System (QMS) certification</i>: ISO13485-2016 certification (https://www.iso.org).c) <i>Adherence to Regulation</i>: Bidders are required to adhere to the Medicines and Related Substances Act, 1965 (Act No. 101 of 1965) as amended and the Regulation relating to Medical Devices and IVDs (2016). Non-compliance with these conditions will invalidate the bid.d) <i>Licensing</i>: Manufacturers, distributors and wholesalers, as referred to in Section 22C(1)(b) of the Medicines and Related Substances Act, 1965 (Act No. 101 of 1965), must obtain a licence for the manufacturing, importing, exporting, distribution and wholesaling of medical devices and IVDs, as issued by the South African Health Products Regulatory Authority (SAHPRA).e) <i>Batch documentation</i>: Proof of the production, invoicing, and shipping documents of a minimum of three different test kit batches / lot numbers must be provided to NICD.	
2. Product Specification	Compliance
1. Single syphilis RDT : The RDT must be an immunochromatographic assay, comprising synthetic peptides and/or recombinant antigens that detect antibodies	

(IgG and IgM) to Syphilis (*Treponema pallidum*) in human serum, plasma, and/or whole blood.

Each test must have an internal quality control mechanism, such as a control (validation) line.

2. **Dual HIV/syphilis RDT:** The RDT must simultaneously screen for HIV and syphilis using one specimen. The test must be an immunochromatographic assay, comprising synthetic peptides and/or recombinant antigens that detect antibodies (IgG and IgM) specific to HIV 1&2 and Syphilis (*Treponema pallidum*) in human serum, plasma, and/or whole blood.

Each test must have an internal quality control mechanism, such as a control (validation) line.

3. The test method/process should not be complex and must be completed in a maximum of 3 steps. The instructions for use (IFU) must include clear instructions for testing with each matrix (serum/plasma and specifically whole blood). Serum/Plasma is used for evaluation purposes and the protocol for serum/plasma must be included in the IFU. Volume for whole blood, serum or plasma and reagent should be an exact volume without a volume range e.g. 2 – 3 drops. The instructions must be in English.

4. Dual HIV/Syphilis RDT: The test kit must have high clinical and analytical performance in reputable laboratory evaluations, as follows (Using WHO optimal requirements):

	HIV	Syphilis
Sensitivity	≥ 99%	≥ 98%
Specificity	≥ 99%	≥ 98%

Single Syphilis RDT: The test kit must have high clinical and analytical performance in reputable laboratory evaluations, as follows (Using WHO optimal requirements):

	Syphilis
Sensitivity	≥ 98%

Specificity	≥ 98%	
<p>5. The number of weak positives must be less than 5%. A weak positive is a sample that gives a weak reaction on the syphilis test strip when a band is significantly fainter or weaker than the procedural control observed.</p>		
<p>6. The number of invalid results must be less than 5%.</p>		
<p>7. Inter-reader variability of test kits must be less than 5%. Inter-reader variability is analysed by two different operators who read the final results independently.</p>		
<p>8. Duration:</p> <ul style="list-style-type: none"> a. No duration ranges will be accepted e.g.5-20 minutes is not acceptable. b. The IFU must indicate a specified incubation time duration c. Only one incubation time duration is acceptable. d. The maximum time duration for the test result must be 20 minutes or less for either positive or negative results. 		
<p>9. The storage temperature of the test kits and reagents should allow safe storage in any South African rural clinic that has no heating or refrigeration (safe to store between 2°C and 30°C). Operating temperature should be ambient temperature i.e. between 18°C and 30°C.</p>		
<p>10. The guaranteed shelf-life for the test and buffer solution must be greater than 12 months on delivery at all delivery sites countrywide.</p>		
<p>11. Traceability of the test kits and Reagents, Packaging and Labelling including WHO PQ and/or Certifying Body reference number. Only the manufacturer's name of the test kit device will be accepted.</p> <ul style="list-style-type: none"> a. Test kit batch/lot number and expiry date must appear on each test foil, box of tests and outer shipping carton. Labelling should conform to GHTF documents: "Labelling and Instructions for Use for IVD Medical Devices". b. Reagent batch/lot number must be the same as the test kit batch/lot number and must be printed together with the expiry date on the bottle marked with the products name. 		

<p>c. Additional equipment and reagents required for the test must be provided to include:</p> <ol style="list-style-type: none"> I. buffer/diluent, II. pipettes that are standardised and deliver the expected volumes, lancets (single-use, auto-safety retractable needle 23g, 2.2mm depth, blade cutting, ultrasonically welded) and III. swabs (70 % isopropyl alcohol) <p>d. As an example, a box of 25 test devices must contain sufficient buffer/diluent, 25 pipettes, 25 Lancets, 25 Swabs and a Package Insert.</p>	
<p>12. Training:</p> <ol style="list-style-type: none"> a. Training for two to three days must be provided by the supplier in the allocated provinces prior to supplying test kits. b. Training must also be provided to the Correctional Services, South African Police Services (SAPS) and Department of Defence (SANDF) in the allocated provinces. c. Suppliers must also be available to assist provinces with training as and when the need arises. d. Supplier are advised that the costs for training including test kits used for demonstration purposes will be at the cost of the supplier(s). 	
<p>3. Post Award Compliance</p>	<p>Compliance</p>
<p>1. Post Marketing surveillance</p> <p>It is compulsory for all successful bidders to participate in the Post Marketing surveillance as follows:</p> <ul style="list-style-type: none"> • Prior to any batches/lot numbers being distributed to testing sites the supplier will provide a minimum of 100 test devices of the final batch to the NICD for assessment. • No batch / lot number may be distributed in South Africa without the necessary - production Post Market Surveillance Report from the NICD. <p>A compulsory fee for the assessment of both production batches will be applied by the NICD and paid for by the supplier</p>	

2. The supplier will be expected to deliver stock to all Provinces allocated within four weeks (lead time) after the commencement of the contract.	
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