

 GAUTENG PROVINCE PROVINCIAL TREASURY REPUBLIC OF SOUTH AFRICA	Provincial Supply Chain Management	
	INVITATION TO BID	Page 1 of 4

BID NUMBER	GT/GDH/124/2024
BID DESCRIPTION	THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).

CUSTOMER DEPARTMENT	GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS
CUSTOMER INSTITUTION	GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS

BRIEFING SESSION	Y ☒	N ☐	SESSION COMPULSORY	Y ☐	N ☒	
			SESSION HIGHLY RECOMMENDED	Y ☒	N ☐	
BRIEFING VENUE	GAUTENG HEALTH, AUDITORIUM, 45 COMMISSIONER STREET, LIFE CENTRE BUILDING, MARSHALL TOWN		DATE	29/11/2024	TIME	12:00-13:00
COMPULSORY SITE INSPECTION	Y ☐	N ☒	DATE	N/A	TIME	N/A
SITE INSPECTION ADDRESS	N/A					

TERM AGREEMENT CALLED FOR?	Y ☒	N ☐	TERM DURATION	THREE YEARS (36 MONTHS)
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CLOSING DATE	13/12/2024	CLOSING TIME	11:00
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TENDER BOX LOCATION
GAUTENG DEPARTMENT OF HEALTH, GROUND FLOOR, 11 DIAGONAL STREET, NEWTOWN, JOHANNESBURG

NOTES

THE TENDER BOX IS OPEN 24 HOURS A DAY, 7 DAYS A WEEK

- Bids / tenders must be deposited in the Tender Box on or before the closing date and time.
- Bids / tenders submitted by fax will not be accepted.
- This bid is subject to the preferential procurement policy framework act, 2000 and the preferential procurement regulations, 2022, the general conditions of contract (gcc) 2010 and, if applicable, any other special conditions of contract.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL GPG BID FORMS – (NOT TO BE RE-TYPED) - ALL REQUIRED INFORMATION MUST BE COMPLETED (FAILURE TO DO SO MAY RESULT IN YOUR BID BEING DISQUALIFIED)

THE TENDERING SYSTEM

The Invitation to Bid Pack consists of two Sections (Section 1 and Section 2). These two sections must be submitted separately, clearly marked with the Tender Number and the Section Number.

TRAINING SESSIONS

Non-compulsory **"How to tender"** workshops are held every Wednesday from 10:00 to 13:00. Kindly follow our social media platforms / etenders@gauteng.gov.za (Publications) for the venue of the training.



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PART A INVITATION TO BID

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.	



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TENDER DOCUMENTS CAN BE OBTAINED FROM: <https://e-tenders.gauteng.gov.za/Pages/Advertised-Open-Tenders.aspx>
OR

ALTERNATIVELY SEND AN E-MAIL TO: Tender.admin@gauteng.gov.za

ANY ENQUIRIES REGARDING BIDDING PROCEDURE MAY BE DIRECTED TO:

DEPARTMENT	GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS
CONTACT PERSON	Ms. Masoto Malele/Mr. Thakani Manyandze
TELEPHONE NUMBER	n/a
FACSIMILE	n/a
E-MAIL ADDRESS	Thakani.Manyandze@gauteng.gov.za/Masoto.Malele@gauteng.gov.za

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

DEPARTMENT	GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS
CONTACT PERSON	Dr. Eliada Georghiou/ Otto iNikschtat
TELEPHONE NUMBER	n/a
FACSIMILIE	n/a
E-MAIL ADDRESS	Eliada.Georghiou@gmail.com/ Onikschtat@hotmail.com



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PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER		DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Proof of authority must be submitted e.g. company resolution)			



CONSENT FORM TO PROCESS PERSONAL INFORMATION IN TERMS OF THE PROTECTION OF PERSONAL INFORMATION ACT, NO. 4 OF 2013 (POPIA).

The purpose of the POPIA is to protect personal information of individuals and businesses and to give effect to their right of privacy as provided for in the Constitution.

By signing this form, you consent to your personal information to be processed by the Gauteng Department of Health and consent is effective immediately and will remain effective until such consent is withdrawn.

APPLICATION FOR THE CONSENT OF A DATA SUBJECT FOR THE PROCESSING OF PERSONAL INFORMATION FOR THE PURPOSE OF BIDS

Name & Surname/Company: _____

Residential/Postal or Business Address: _____

Contact number (s): _____

Email address: _____

1. In the furtherance of the Gauteng Department of Health's (**The Department**) operational requirements and for purposes of complying with its policies, procedures and privacy laws, we may be required to disclose, process and/or further process your personal information provided to us and/or made available by virtue of submission of this bid.
2. For purposes contemplated in paragraph 1, the Department, hereby requests your consent and/or authorisation for the disclosure, processing and/or further processing of any and/or all your personal information as may be necessary for reasons provided in paragraph 1.
3. By signing this Personal Information Processing Consent Form, you hereby grant the Department permission, consent and/or authorisation to disclose, process and further process your personal information within our records, as may be required and/or necessary from time to time.

I, the undersigned, _____ (*INSERT FULL NAME AND SURNAME*) with Identity Number _____, in my personal capacity or acting on behalf of _____
_____ (Name of **Company**), confirm that:

4. I have read and understood the contents of this Personal Information Processing Consent form, the details of which have been explained to me and furthermore I understand my right to privacy and the right to have my personal information processed in accordance with the conditions for the lawful processing of personal information.
5. I declare that all my personal information supplied to the Department is accurate, up to date, not misleading and that it is complete in all respects and will be held and/ or stored securely for the purpose for which it was collected and that I will immediately advise the Department of any changes to my Personal Information should any of these details change.
6. I also understand that I have the right to request that my personal information be corrected or deleted, if it is inaccurate, irrelevant, excessive, out of date, incomplete, misleading, or obtained unlawfully or that the personal information or record be destroyed or deleted if the Department is no longer authorised to retain it.
7. I declare that my personal/the Company's information and/or data may be disclosed, processed and/or further processed by the Department (including its employees, agents, contractors and representatives) and such other third parties contracted with the Department involved in the processing, verification and management of my and/or Company's Personal Information in accordance with the requirements set out in paragraph 1;
8. I accept the data security and protection measures adopted and/or applied by the Department in their retention, disclosure, processing, and further processing of my and/or Company's personal information/data.
9. I accept that the Department may retain any of my personal/the Company information/data as may be required for purposes contemplated in paragraph 1.

10. With my signature below, do hereby give my or the Company's irrevocable consent, and/or authorisation for purposes required and/or detailed in this *Personal Information Processing Consent* form.

Signed at this day of 20.....

.....

Name of data subject/ designated person

.....

Signature

.....

Name/Surname/Dept of Responsible Party

.....

Signature

Date:



PROVINCIAL SUPPLY CHAIN MANAGEMENT

INSTRUCTION TO BIDDERS

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1.	The INVITATION TO BID Pack is drawn up so that certain essential information should be furnished in a specific manner. Any additional particulars shall be furnished in a separate annexure.
2.	The INVITATION TO BID forms should not be retyped or redrafted, but photocopies may be prepared and used. Additional offers may be made for any item, but only on a photocopy of the page in question or on other forms obtainable from the relevant Department or Institution advertising this BID. Additional offers made in any other manner may be disregarded.
3.	Should the INVITATION TO BID forms not be filled in by means of electronic devices, bidders are encouraged to complete forms in a black ink.
4	Bidders shall check the numbers of the pages and satisfy themselves that none are missing or duplicated. No liability shall be accepted with regards to claims arising from the fact that pages are missing or duplicated.
5	The INVITATION TO BID forms shall be completed, signed and submitted with the bid. SBD 5 (National Industrial Participation Programme Form) will only be added to the INVITATION TO BID pack when an imported component in excess of US \$ 10 million is expected.
6	A separate SBD 3.1, SBD 3.2 or SBD 3.3 form (PRICING SCHEDULE per item) shall be completed in respect of each item. Photocopies of this form may be prepared and used or additional copies, (if required) are obtainable from the relevant Department or Institution advertising this BID (not applicable for PANEL of BIDDERS).
7	Firm delivery periods and prices are preferred. Consequently, bidders shall clearly state whether delivery periods and prices will remain firm for the duration of any contract, which may result from this BID, by completing SBD 3.1 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
8	If non-firm prices are offered bidders must ensure that a separate SBD 3.2 (Non-Firm Prices per item) is completed in respect of each item for which a non-firm price is offered. Photocopies of this form may be prepared and used or additional copies, (if required) are obtainable from the relevant Department or Institution advertising this BID (not applicable for PANEL of BIDDERS).



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INSTRUCTION TO BIDDERS

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9	Where items are specified in detail, the specifications form an integral part of the BID document (see the attached specification) and bidders shall indicate in the space provided whether the items offered are to specification or not (not applicable for PANEL of BIDDERS).
10	In respect of the paragraphs where the items offered are strictly to specification, bidders shall insert the words "as specified" (see the attached specification) (not applicable for PANEL of BIDDERS).
11	In cases where the items are not to specification, the deviations from the specifications shall be indicated (see the attached specification).
12	In instances where the bidder is not the manufacturer of the items offered, the bidder must as per SBD 3.1 or SBD 3.2 (PRICING SCHEDULE per item) submit a Letter of Supply from the relevant manufacturer or his supplier (not applicable for PANEL of BIDDERS).
13	The offered prices shall be given in the units shown in the attached specification, as well as in SBD 3.1 or SBD 3.2 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
14	With the exception of imported goods, where required, all prices shall be quoted in South African currency. Where bids are submitted for imported goods, foreign currency information must be supplied by completing the relevant portions of SBD 3.1 (PRICING SCHEDULE per item) and SBD 3.2 (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
15	Unless otherwise indicated, the costs of packaging materials (if applicable) are for the account of the bidder and must be included in the bid price on the (PRICING SCHEDULE per item) (not applicable for PANEL of BIDDERS).
16	Delivery basis (not applicable for PANEL of BIDDERS): a) Supplies which are held in stock or are in transit or on order from South African manufacturers at the date of offer shall be offered on a basis of delivery into consignee's store or on his site within the free delivery area of the bidder's centre, or carriage paid consignee's station, if the goods are required elsewhere. b) Notwithstanding the provisions of paragraph 16(a), offered prices for supplies in respect of which installation / erection / assembly is a requirement, shall include ALL costs on a "delivered on site" basis, as specified on the (PRICING SCHEDULE per item).



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INSTRUCTION TO BIDDERS

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17	Unless specifically provided for in the BID document, no bids transmitted by facsimile or email shall be considered.
18	Failure on the part of the bidder to sign any of the INVITATION TO BID forms and thus to acknowledge and accept the conditions in writing or to complete the attached INVITATION TO BID forms, Preference documents, questionnaires and specifications in all respects, may invalidate the bid.
19	Bids should preferably not be qualified by the bidder's own conditions of bid. Failure to comply with these requirements (i.e. full acceptance of the General Conditions of Contract or to renounce specifically the bidder's own conditions of bid, when called upon to do so, may invalidate the bid.
20	In case of samples being called for together with the bid, the successful bidder may be required to submit pre-production samples to the South African Bureau of Standards (SABS) or such testing authority as designated at the request of the relevant Department concerned. Unless the relevant Department decides otherwise, pre-production samples must be submitted within thirty (30) days of the date on which the successful bidder was requested to do so. Mass production may commence only after both the relevant Department and the successful bidder have been advised by the SABS that the pre-production samples have been approved.
21	Should the pre-production samples pass the inspections / tests at the first attempt, the costs associated with the inspections / tests will be for the account of the relevant Department. If the SABS or such testing authority as designated do not approve the pre-production samples, but requires corrections / improvements, the costs of the inspections / tests must be paid by the successful bidder and samples which are acceptable in all respects must then reach the SABS or such testing authority as designated within twenty-one (21) days of the date on which the findings of the SABS or such testing authority as designated were received by the successful bidder. Failure to deliver samples within the specified time and to the required standards may lead to the cancellation of the intended contract.
22	In case of samples being called for together with the bid, the samples must be submitted together with the bid before the closing time and date of the BID, unless specifically indicated otherwise. Failure to submit the requested sample(s) before the closing time and date of the BID may invalidate the bid.
23	In cases where large quantities of a product are called for, it may be necessary for the relevant item to be shared among two (2) or more suppliers.



PROVINCIAL SUPPLY CHAIN MANAGEMENT

INSTRUCTION TO BIDDERS

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24	In cases where the relevant Department or Institution advertising this BID may deem it necessary, a formal contract may be entered into with the successful bidder, in addition to a Letter of Acceptance and / or purchase order being issued.
25	If any of the conditions on the BID forms are in conflict with any special conditions, stipulations or provisions incorporated in the bid invitation, such special conditions, stipulations or provisions shall apply.
26	This BID is subject to the General Conditions of Contract and re-issues thereof. Copies of these conditions are obtainable from any office of the Gauteng Provincial Government (GPG).
27	Each bid must be submitted in a separate, sealed envelope on which the following must be clearly indicated: • NAME AND ADDRESS OF THE BIDDER; • THE BID (GT) NUMBER; AND • THE CLOSING DATE. The bid must be deposited or posted; • To the address as indicated on SBD1 and to reach the destination not later than the closing time and date; OR • deposited in the tender box as indicated on SBD1 before the closing time and date.
28	The Gauteng Provincial Government has become a member and as such a key sponsor of the Proudly South African Campaign. GPG therefore would like to procure local products of a high quality, produced through the practise of sound labour relations and in an environment where high environmental standards are maintained. In terms of the Proudly South African Campaign South African companies are encouraged to submit interesting and innovative achievements in the manufacturing field (if relevant to this BID) – including information on new products, export achievements, new partnerships and successes and milestones.
29	Compulsory GPG Contract: It is a mandatory requirement that successful bidder/s (to whom a tender is awarded) sign a GPG Contract upon award of any given contract.

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	POINT SYSTEM	Page 1 of 1

BID NUMBER	GT/GDH/124/2024	CLOSING DATE	13/12/2024
VALIDITY OF BID	120 DAYS	CLOSING TIME	11:00

The goods / services are required by the Customer Department / Institution, as indicated on SBD 01.

This BID will be evaluated on the basis of the under noted point system, as stipulated in the Preferential Procurement Policy Framework Act (Act number 5 of 2000).

POINT SYSTEM

The applicable preference point system for this tender is the 90/10 preference point system.	
The applicable preference point system for this tender is the 80/20 preference point system.	
Either the 90/10 or 80/20 preference point system will be applicable in this tender	✓

TYPE OF CONTRACT (COMPLETED BY PROJECT MANAGER)

SERVICE BASED	Y	☐	N	☒	SERVICE BASED	Y	☐	N	☒	VALUE BASED	Y	☐	N	☒
VALUE BASED	Y	☐	N	☒										
QUANTITY BASED	Y	☐	N	☒										
TERM BASED	Y	☒	N	☐										

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	BIDDER'S DISCLOSURE	Page: 1 of 3

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 interest 1 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

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.

	PROVINCIAL SUPPLY CHAIN MANAGEMENT	
	BIDDER'S DISCLOSURE	Page: 2 of 3

2.2 Do you, or any person connected with the bidder, have a relationship 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 consortium ² 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.

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.

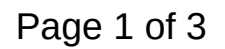
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	BIDDER'S DISCLOSURE	Page: 3 of 3

- 3.5 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.
- 3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring 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.
- 3.7 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 ANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature		Date	
Position		Name of the Bidder	





PROVINCIAL SUPPLY CHAIN MANAGEMENT

EVALUATION METHODOLOGY PROCESS

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STAGE 2

CRITERIA FOR PRICE AND PREFERENCE POINTS (SPECIFIC GOALS)	POINTS
Bid Price	90 OR 80
Preference Points (Specific Goals)	10 OR 20
TOTAL	100

SPECIFIC GOALS SHALL BE ALLOCATED AS FOLLOWS:

	POINTS ALLOCATED
SPECIFIC GOALS	10 OR 20
1.	
Promotion of South African owned enterprises	POINTS ALLOCATED
	10 OR 20
2.	
	POINTS ALLOCATED
3.	
	POINTS ALLOCATED
4.	
	POINTS ALLOCATED
5.	
	POINTS ALLOCATED

***It is the responsibility of the bidder to complete the relevant form (SBD 6.1) and submit it with this BID to the relevant office to qualify for the preference points.**



PROVINCIAL SUPPLY CHAIN MANAGEMENT

EVALUATION METHODOLOGY PROCESS

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BIDDERS JOB CREATION ANALYSIS

Company Name	Date Established
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	Permanent	Temp	SA Citizens	Other	Comments
Staff compliment at Establishment of Enterprise					
Current staff compliment					
Number of jobs to be created if Bid is successful					

The successful bidder may be audited during the course of the contract to verify the above information.

Comments to include:

- If Job Creation is direct (by your own company) or indirect (by your source of supply)
- Where the jobs created for employees that were in existing positions or unemployed? (Net Job Creation)

NOTE: Job Creation should adhere to all applicable RSA Legislation and Regulations.

THIS SECTION IS FOR OFFICE USE ONLY						
Observations	Initial Job Count	Job Creation Potential	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
Year 1						
Year 2						
Year 3						
Year 4						
Year 5						



GAUTENG PROVINCE
HEALTH
REPUBLIC OF SOUTH AFRICA

SPECIAL CONDITIONS OF CONTRACT GT/GDH/124/2024: THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS

ABBREVIATIONS

B-BBEE:	Broad Based Black Economic Empowerment
BEC:	Bid Evaluation Committee
BSC:	Bid Specification Committee
DICOM:	Digital Imaging and Communication in Medicine
GCC:	General Conditions of Contract
GPG:	Gauteng Provincial Government
GPT:	Gauteng Provincial Treasury
GDoH:	Gauteng Department of Health
HIS:	Hospital Information System
PACS:	Picture Archiving and Communication System
POPI:	Protection of Personal Information Act
PPPFA:	Preferential Procurement Policy Framework Act
QC:	Quality Control
RIS:	Radiology Information System
RFP:	Request for Proposal
RDP:	Reconstruction and Development Programme
SABS:	South African Bureau of Standards
SANAS:	South African National Accreditation System
SANS:	South African National Standards
SAHPRA:	South African Health Product Regulatory Authority
SCC:	Special Conditions of Contract
VAT:	Value- Added Tax



SPECIAL CONDITIONS OF CONTRACT GT/GDH/124/2024: THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS

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1. THE PURPOSE

The purpose of this tender is to appoint a service provider for the supply, delivery, commissioning and maintenance of Breath Simulator, High Fidelity Adult Manikin and High-Fidelity Adult Manikin Anaesthesia for Gauteng Department of Health institutions for period of three years.

2. THE BACKGROUND

The traditional methods of educating medical and allied students within our tertiary institutions have long been effective. However, in recent years, with the increase in medicolegal cases and the desire to improve patient care together with the rapid advancement of technology and artificial intelligence, the mode of teaching has undergone a transformation. We can shift from only conventional bedside teaching to a more innovative method, where mannequins capable of simulating human responses are employed for training purposes. This evolution in teaching techniques represents a significant leap forward in medical education, allowing us to put less patients at risk. Students and professional can practice skills and decision making in simulation, before interacting or performing these skills on real patients.

The WITS anaesthesia, trauma and nursing departments are all currently using simulation as part of their teaching programs with very good responses from students and professional that participates in these simulations. The Helen Joseph Hospital (HJH) anaesthesia department was the 1st anaesthetic department that empowered its senior staff with courses in simulation 7 years ago, and continues to do so. The consultant who chairs the Simulation Domain at WITS anaesthesia is from the HJH anaesthesia department and she is currently doing her post graduate diploma in Simulation.

WITS (University of Witwatersrand) anaesthesia is currently running a monthly simulation program for its registrars. The program runs at 2 centres, HJH (Helen Joseph Hospital) and WITS Medical school simulation center.



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2.1 The advantages of investing in simulation are:

2.1.1 Enhanced Training and Skill Development:

Simulation provides an immersive learning environment for medical students and professionals. It offers a safe space to practice complex procedures, refine critical decision-making skills, and develop hands-on experience. This results in better-trained professionals who can deliver safer and more effective patient care.

2.1.2 Patient Safety and Quality Improvement:

Investing in a simulation directly contributes to improved patient safety. Medical professionals will be better prepared to handle rare and high-risk scenarios, reducing the likelihood of errors and adverse events. Ultimately, this leads to higher quality patient care, decreased morbidity and mortality, and a stronger reputation for the institution's medical programs.

2.1.3 Interdisciplinary Collaboration:

A simulation center that is open to multiple faculties fosters interdisciplinary collaboration. Medical professionals, nurses, surgeons, anaesthetists and other healthcare experts can come together to practice team-based approaches to patient care. This cultivates a holistic understanding of medical procedures and enhances communication skills among different specialties.

2.1.4 Research Opportunities:

A simulation center can serve as a hub for research, allowing faculty and students to investigate new techniques, procedures, and technologies in a controlled environment. This could lead to groundbreaking discoveries and innovations in anesthesia and other medical fields.

2.1.5 Attraction and Retention of Talent:

By providing simulation training facilities and equipment, the institution becomes an attractive destination for both prospective and current professionals. This boost retaining top-notch faculty and staff who are excited to work in an advanced educational environment.

2.1.6 Community Outreach and Continuing Education:

Simulation can serve as a resource for continuing education programs, workshops, and seminars for medical professionals in the region. This outreach strengthens the ties between institutions and the larger healthcare community while disseminating the latest knowledge and techniques.

2.1.7 Technological Advancement:

Investing in a simulation center would allow our institution to stay at the forefront of medical education and technological advancements.



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2.1.8 Grant Opportunities and Partnerships:

Having a simulation center could open doors to collaborations with industry partners, research grants, and funding opportunities from medical organizations and government agencies. These partnerships can provide additional resources for the sustainability of the center.

2.1.9 Long-term Cost Savings:

While there's an initial investment, simulation equipment and a center can lead to long-term cost savings. Better-trained medical professionals are less likely to make errors that result in costly legal claims or retraining. Moreover, the center's resources can be leveraged across multiple departments, maximizing its utility.

2.1.10 Global Competitiveness:

In the rapidly evolving field of medicine, having a simulation center sets your institution apart as a global leader in medical education. Graduates equipped with exceptional training from your center will be well-prepared to excel in their careers and contribute to advancements in healthcare worldwide.

In conclusion, simulation equipment and a centre with cross-faculty utility is an investment that promises numerous benefits. It enhances training, elevates patient care standards, fosters collaboration, promotes research, attracts talent, and would position our institution at the forefront of medical education. By supporting this initiative, funders can contribute to safer medical practices, improved healthcare outcomes, and the advancement of medical knowledge as a whole.

The Procurement Plan of 2023/2024 has the Breath Simulator, High Fidelity Adult Manikin and High-Fidelity Adult Manikin Anaesthesia as planned items.

Department of Health is looking to acquire the Breath Simulator, High Fidelity Adult Manikin and High-Fidelity Adult Manikin Anaesthesia to comply with its mandate of delivering health care services to the communities. The acquiring of these equipment will include full service, repair and maintenance plan contract throughout the lifespan of the equipment.

3 LEGISLATIVE AND REGULATORY FRAMEWORK

This document references various standards and specifications applicable to the relevant business sector within the Republic of South Africa. Changes to these standards and specifications effected during preparing this document have not been taken into account and therefore may vary. Changes or queries detected in this document must be brought to the attention of the GDOH.



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The products / services offered shall in respect of all matters arising from the fulfilment of the contract comply with all laws and regulations as amended that are applicable to the services. In this regard, special reference is, inter alia made to the following acts and standards, which do not constitute an exhaustive list:

3.1 The General Conditions of Contract (GCC):

This bid and all contracts emanating from this tender will be subject to the General Conditions of Contract (GCC), as issued by National Treasury in accordance with Treasury Regulation 16A published in terms of the Public Finance Management Act, 1999 (Act 1 of 1999). The general conditions are available on the National Treasury website (www.treasury.gov.za).

3.2 The Special Conditions of Contract:

The Special Conditions of Contract are supplementary to that of the General Conditions of Contract. Where the Special Conditions of Contract conflict with the General Conditions of Contract, the Special Conditions of Contract shall prevail.

3.3 Other legal prescripts:

- a. The Constitution of the Republic of South Africa, 1996, Section 217
- b. Broad-Based Black Economic Empowerment Act 53 of 2003
- c. Public Finance Management Act 1 of 1999
- d. Preferential Procurement Policy Framework Act 5 OF 2000
- e. Preferential Procurement Regulations, 2022
- f. Open Tender Framework, 2019
- g. Gauteng Finance Management Supplementary Amendment Act 6 of 2019
- h. Protection of Information Act 84 of 1982
- i. Promotion of Access to Information Act 2 of 2000
- j. Promotion of Administrative Justice Act 3 of 2000
- k. Occupational Health and Safety Act 85 of 1993
- l. Hazardous Substance Act 15 of 1973
- m. National Health Act 61 of 2003
- n. Health Professions Act 56 of 1974
- o. Protection of Personal Information Act 4 of 2013

3.4 Applicable National Standards

- a. IEC 60601 Compliance for electrical safety and essential performance.
- b. ISO 13485 Compliance for Quality Management Systems.



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4 THE FORMAT OF THE BID DOCUMENT

The bidders must submit the bid in a lever arch file in the format, as per Table 1 below.

Table 1: The Bid Format

Part of Bid Submission	Required documents
Part 1	Section 1: Technical Proposal of the tender All the documents included in Section 1 must be read, completed, signed where applicable and submitted. Product information documents (e.g., catalogues, operating manuals, instruction leaflets, etc.), in English language. 1. SBD 01: Invitation to Bid 2. SBD 4: Bidder's Disclosure 3. Quality Standards Certifications: Product/s supplied to the Gauteng Department of Health must conform to the quality standards and international device regulations. The bidders must submit the following certifications together with the bid documents before the closing date and time of the bid: • EC 60601-1 (Edition 3.2) Compliance for Electrical Safety and essential performance • ISO 13485: 2016 Compliance for Quality Management Systems 4. Product Brochure and Technical Data Sheets: Bidders must submit the fully comprehensive product brochures in and a copy of the technical data sheets that includes the technical specifications of the items tendered for. ALL BROCHURES MUST BE CLEARLY MARKED: ▪ Brochures for (Item description) ▪ Item number: to be indicated on brochure ▪ Name of the company 5. Valid commitment letter: If the bidder is a manufacturer (not sourcing products from another company), a commitment letter stating that products will be produced and distributed from own facility should be attached (letter must be signed) or If the bidder is not the original product manufacturer, a valid copy of the commitment letter from the original product manufacturer, reseller or wholesale supplier that authorises the bidder to resell the product must be submitted with the bid documents.



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	6. Tax Compliance Requirements: A printout via SARS e-Filing of the valid Tax Compliance Status (TCS) PIN, must be submitted with the bid documents at the closing date and time of the bid. In bids where consortia, joint ventures and sub-contractors are involved, each party must submit a separate PIN. The PIN, which is issued by the South African Revenue Services, can be used by third parties to verify the compliance status of the bidder online via SARS e-Filing. 7. Bidder must be registered with CSD and provide the Supplier Master Registration Number (MAAA number). 8. A certified copy of the accreditation issued by the South African National Accreditation System (SANAS) to the Inspection Body affiliated with the bidders for the Acceptance Quality Assurance Test and commissioning of the equipment offered.
Part 2	The following are to be submitted with the bid documents: 1. Company profile indicating the organizational structure. 2. Valid copy/s of competency certificates and the CVs of each technician/s employed by the bidder relevant to the equipment offered on the installation, commissioning, calibration and maintenance of the item/s tendered for. 3. The bidders are required to submit a certified copy of the Registration as an importer with the South African Revenue Service (SARS) together with the Import Permit.
Part 3	Section 2: Financial Proposal of the tender. Completed Price Schedule document, referred to as Annexure B of the tender pack as well as an electronic copy in Excel format (not PDF), captured and saved on a memory stick. 1. SBD 3.1: Price Schedule – (Goods) 2. SBD 6.1: For Preference point claim 3. SBD 3.2: Non-firm prices

5 THE PRODUCTS SPECIFICATIONS

The bidders must refer to the attached **Annexure A: Technical Specification**

Annexure A consist of 26 items listed for the supply, delivery, commissioning and maintenance of Breath Simulator, High Fidelity Adult Manikin and High-Fidelity Adult Manikin Anaesthesia for Gauteng Department of Health Institutions for a period of three years.



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Bidders have the option to select any (one or more) or all of the items to be included in their bid proposal submission. Each of the 26 items will be awarded separately to the acceptable tenderer scoring the highest number of points for the Preference Point System.

The bidders must complete and submit the Annexure A: Technical Specification as follows:

1. Hard copy (printed) version of the Bidder's completed Annexure A: Technical Specification.
2. Soft copy (Excel format) of the Bidder's completed Annexure A: Technical Specification on a memory stick, to be included in the bid proposal

6 EVALUATION METHODOLOGY

The evaluation of bids will be in terms of the Public Finance Management Act 1 of 1999 (PFMA), the Preferential Procurement Policy Framework Act 5 of 2000 (PPFA), and the Preferential Procurement Regulations, 2022 (PPR).

The evaluation of the bids will consist of a two-stage process as per the PPR 2022.

- Stage 1A: Mandatory Administrative Compliance
 Stage 1B: Technical Evaluation
 Stage 2: Price and Preference Points Evaluation

The bids will be evaluated according to the 80/20 or 90/10 preference point system. The 80/20 system which is applicable to bids with a Rand value of up to R50 million whilst the 90/10 system is applicable to bids with a Rand Value above R 50 million (all applicable taxes included), where a maximum of 80 or 90 points will be allocated for price and a maximum of 20 or 10 will be allocated for specific goals in terms of the requirements of the Preferential Procurement Policy Framework Act (Act 5 of 2000), Preferential Procurement Regulations 2022 and the Gauteng Department of Health Preferential Procurement Policy, 2022.

STAGE 1A: MANDATORY ADMINISTRATIVE COMPLIANCE

All bids received will be subjected to a mandatory administrative compliance in line with the below requirements. This phase is not scored and any bidder who fails to comply with any of the said mandatory criteria will be disqualified.

Bidders must submit fully completed, signed where applicable all SBDs and other listed documents, failure to submit will lead to disqualification.



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Table 2: Mandatory requirements:

ITEM NO:	MANDATORY DOCUMENTS (REQUIREMENTS)
1.	SBD 1: Invitation to Bid
2.	SBD 4: Bidder's Disclosure Form
3.	Annexure B: Price Schedule – Total cost of ownership (including 2-year warrantee and 5-year maintenance cost and/or any other related costs)
4.	Product Brochure and Technical Data Sheets: Bidders must submit the fully comprehensive hard copies of product brochures and of the technical data sheets that includes the technical specifications of the items tendered for together with the bid documents. ALL BROCHURES AND TECHINCAL DATA SHEETS MUST BE CLEARLY MARKED: ▪ Item description ▪ Item number: to be indicated on brochure ▪ Name of the company
5.	Valid commitment letter: If the bidder is a manufacturer (not sourcing products from another company), a commitment letter stating that products will be produced and distributed from own facility should be attached (Letter must be signed) or If the bidder is not the original product manufacturer, a valid copy of the commitment letter from the original product manufacturer, reseller or wholesale supplier that authorises the bidder to resell the product must be submitted with the bid documents.

If a bidder does not meet all the requirements stated above, the bid will be disqualified.

STAGE 1B: TECHNICAL EVALUATION

Only bidders who have complied with the Mandatory Administrative Compliance will be evaluated for the Technical Evaluation.

Bidders have the option to select any (one or more) or all of the 26 items as listed on Annexure A: Technical Specifications to include in their bid proposal.



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Requirements for completing Annexure A:

1. The Annexure A: Technical Specifications (Microsoft Excel) included with the tender documents, must be completed in full for every selected bidding item and submitted with the bid proposal in both hard copy (printout) and soft copy (Excel format) saved on a memory stick.
2. On the Summary List tab, Bidders must indicate which of the 26 items are included in their bid proposal by indicating "Yes /No" in column G.
3. For every selected bidding item, Bidders must complete the relevant tab of the item in full. The compliance line requirements for every applicable item selected by the Bidder, will be verified against the referenced brochures, technical data sheet, user/technical manual or manufacturer's letter submitted with the bid proposal.
4. Bidders are required to clearly reference every compliance line requirement to their supporting evidence provided by stating the page number and paragraph on column G (reference to brochure / technical data sheet, user/technical manual or manufacturer's letter).
5. Should the information required not be stated in the brochures, technical data sheets, user/technical manuals, the bidder must then supply a letter from the manufacturer (on the manufacturer's letterhead) to verify the response.
6. Bidders are required to indicate compliance/non-compliance with the specification by typing 'YES/NO' on each line item on column C.
7. In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E.

If a bidder does not meet the technical specifications requirements or no equivalent/better option offered, the bid will be disqualified. (Bidders must refer to Annexure A)

STAGE 2: PRICE AND SPECIFIC GOALS

The bids will be evaluated according to the 80/20 or 90/10 preference point system. The 80/20 system which is applicable to bids with a Rand value of up to R50 million whilst the 90/10 system is applicable to bids with a Rand Value above R 50 million (all applicable taxes included), where a maximum of 80 or 90 points will be allocated for price and a maximum of 20 or 10 will be allocated for specific goals in terms of the requirements of the Preferential Procurement Policy Framework Act (Act 5 of 2000), Preferential Procurement Regulations 2022 and the Gauteng Department of Health Preferential Procurement Policy, 2022.



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Bidders are required to submit fully completed and signed, where applicable all SBDs and other documents listed below:

- The SBD 3.1 Price schedule (Goods)
- The SBD 6.1 For Preference point claim.
- The SBD 3.2: Non-firm price

Bidders are referred to the table below for specific goals claim:

Table 3. The maximum points for this tender are allocated as follows:

PRICE AND SPECIFIC GOAL REQUIREMENTS	DOCUMENTARY PROOF	POINTS	
POINTS FOR PRICE		80	90
POINTS FOR SPECIFIC GOALS Promotion of South African owned enterprises	Bidder must submit copies of CIPC registration documentation and proof of business address (Municipal account or valid lease agreement)	20	10
TOTAL POINTS FOR PRICE AND SPECIFIC GOALS		100	100

Failure by the bidder not to submit proof or documentation required in terms of this tender as stated on Table 3, will forfeit preference points for specific goals.

The GDoH reserves the right, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required.

7 GENERAL AND SAFETY REQUIREMENTS

7.1 Acceptance Tests

The successful bidder must:

Ensure that the required Acceptance Tests are performed immediately after acceptance of products.

7.2 Electrical power supply

The successful bidder must:

- a. Verify that adequate electrical power supply is available for the optimal functionality of the equipment.
- b. If electrical power supply is found not be adequate, then an upgrade that meets our Certificate of Compliance must be provided by the supplier at their costs.
- c. The power input must be 380V, 50Hz AC offered, where applicable. Bidders must ensure that the product quoted for is fitted appropriately with approved mains cable.



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- d. A 3 phase in / out power supply must be offered, where applicable also stating the operating Amps and Watts of the equipment.

7.2.1 Complete the following within 6-12 weeks after receiving purchase order:

- a. The delivery of the equipment to the institution.
- b. Time required for installation and commissioning from the date of delivery of the equipment to the institution.
- c. Total time required from the placement of the order to the commissioning of the equipment.
- d. In the instance of any delay in the installation, a communication must be done with the relevant institution in writing.

7.3 Technology

- a. All parts must be new; no second hand or refurbished parts will be accepted by Participants
- b. The bidder must be able to upgrade the software at no cost during the contract period. The system must be upgradeable to enhance functionality.

7.4 Manuals and documentation

The bidders may submit a copy of all the brochures that includes the brand name offered and complete technical specification as follows:

- a. Full printout of the brochure file.
- b. The marketing brochure as well as the technical product data sheets.

7.4.1 The successful bidders must submit the complete service / repair and user manual book as follows:

- a. original manuals must be supplied.
- b. The service / repair and user manual book must include the following information:
 - 1. Fault finding guide
 - 2. Circuit diagrams / schematics
 - 3. Circuit descriptions and Printed Circuit Board (PCB) layouts
 - 4. Calibration guide
 - 5. Part numbers and exploded diagram of mechanical parts / panels
- c. An electronic copy of the manuals and documentation in English must be supplied on a memory stick.
- d. The following must be submitted in English:
 - 1. Complete operator / user manuals
 - 2. Quality assurance manuals
 - 3. Service manuals with full maintenance procedures, parts lists, system diagrams and electrical, mechanical and pneumatic schematics.
 - 4. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklists.
 - 5. The vendor shall provide updates and revisions of the manuals at no extra charge for the lifetime of the equipment



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7.5 Warranty, Maintenance and Quality Control Testing

- a. The two-year warranty will commence after formal acceptance and handover of the equipment.
- b. The two-year warranty must be provided for all the equipment in the tender document.
- c. Scheduled Services by Technical Staff and Annual QC tests by Inspection Bodies, must be performed during normal working hours, from 08h00 to 17h00 during week days or as per arrangement.
- d. Bidders must supply a two-year warranty against poor workmanship and latent defects and parts, as follows:
 1. The warranty must include all materials used and all workmanship.
 2. All software updates must be included in the warranty at no extra costs.
 3. Spares and traveling time cost to be included in the warranty. Spares should be available within three to five working days.
 4. A callout and backup service for urgent service requests must be available daily for 24 hours and be included in the warranty. The response time must be within two hours.
- e. The successful bidder must arrange with both the respective Hospital / Institution and the Medical Equipment Chairperson at Helen Joseph Tertiary hospital.
- f. Software changes to the equipment that are corrective in nature and initiated due to software errors, regulatory requirements or safety reasons, shall be delivered and installed at no charge for the life span of the equipment.
- g. If movable equipment is taken away to the service and repair facility for repair and maintenance during the warranty and maintenance periods, a loan set must be supplied for use by the institution.
- h. If the equipment bidden for cannot be repaired during the warranty period, it must be replaced and the institution be furnished with new equipment
- i. The up-time of the unit must comply as follows:
 1. Up-Time is defined as follows: 24/7; i.e., 365 days times 24 hours = 8760 Hours. A down time of 2% relates to 175 hours per annum.
 2. The up-time of the unit must be better than 98%, excluding scheduled preventative maintenance and software upgrades, measured on a quarterly basis. The percentage lower than 98% will be added to the warranty period.
 3. A sliding scale penalty clause will form part of the service contract. This will result in the maintenance payment being reduced by a pro rata amount that the up-time is less than 98%.
- j. The five year all inclusive, fully comprehensive preventative maintenance, service and repair contract will commence after the two-year warranty period has expired, as follows.
 1. Specify the total cost per year and the cumulative cost for the five-year all-inclusive service contract.
 2. The contract must cover, but not be limited to the following: All parts labour, travelling, accommodation, service and maintenance.



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3. The five-year maintenance plan must also include all quality checks and quality assurance requirements (including Annual QA-tests by SANAS accredited inspection bodies) and also all required calibrations.
4. All software updates must be included in the five-year maintenance plan at no extra costs.
5. A Technical Report outlining the functional status of each unit must be submitted to the Head of the Department on an annual basis. (Not to be confused with Annual QC Test Results issued by the Inspection Bodies)
6. For each and every repair, service and maintenance and all other services (upgrades, updates, etcetera) a job card must be furnished.
- k. The lifespan and end of support date of the equipment offered must be indicated.
 1. Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.
 2. Spare part kits should specify all spare parts that will be included and stored on-site.
- l. Bidders must note that dedicated test equipment, spare parts and any special tooling required for the maintenance of equipment quoted on must be made available and a dedicated workshop must be arranged. The Department has the right to visit and validate the workshop.

7.6 Commissioning of the equipment

The equipment and accessories ordered shall be delivered, installed, tested and commissioned at the expense of the bidders prior to acceptance.

7.7 User and Technical Training

- a. Upon commissioning the system, the application specialist must be immediately available to provide the training of staff.
- b. On site user training sessions on the operation of the equipment must be provided at no additional cost to the final bid price to ensure the correct application of the unit. Sessions to be conducted five days per week for the first 2 weeks.
- c. The application specialist must provide repetitive and refresher training for one day every six months for the duration of the warranty and maintenance, as requested by the users in order to demonstrate and train all staff on all aspects of the equipment.
- d. Quality Control training for two days must be provided by the supplier's technician / Inspection Body is mandatory within the first year and must be included in the tender price (not included in other training).
- e. All other further training must be available on request.



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8 PAYMENT TERMS

Section 38(1) (f) of the PFMA and Treasury Regulation 8.2.3 regulates the payment to suppliers within 30 days of invoice receipt. In support of this it is compulsory for the successful bidder/s, on award, to register for GPT Electronic Invoice Submission and Tracking.

9 HIGHLY RECOMMENDED BRIEFING SESSION

The bidders are requested to attend a highly recommended briefing session to address and clarify any misunderstanding or ambiguity prior to the proposal submission closing date. These proceedings will be recorded for record keeping purposes. Bidders that did not attend the highly recommended briefing session will not be disqualified.

10 THE CONDITIONS OF THE BID AWARD

- a. The Gauteng Department of Health reserves the right to award or not to award the tender.
- b. The Gauteng Department of Health reserves the right to negotiate further with preferred bidders, where prices are above the targeted market price.
- c. The Gauteng Department of Health reserves the right to make multiple bid award and award the same product to more than one bidder to address product availability and compatibility.
- d. The successful bidder must be tax compliant at the awarding of the tender.
- e. Bidder must be registered with CSD and provide the Supplier Master Registration Number (MAAA number).
- f. The Gauteng Department of Health reserves the right to request the successful bidder to submit valid copy/s of competency certificates of each technician/s employed by the bidder relevant to the equipment offered on the installation, commissioning, calibration and maintenance of the item/s tendered for.

11 TRAVEL

The Gauteng Department of Health will not be liable for any other travel costs incurred by the bidder during the submission of bids.

12 VALID COMMITMENT LETTER

If the bidder is a manufacturer (not sourcing products from another company), a commitment letter stating that products will be produced and distributed from own facility should be attached (Letter must be signed) or

If the bidder is not the original product manufacturer, a valid copy of the commitment letter from the original product manufacturer, reseller or wholesale supplier that authorises the bidder to resell the product must be submitted with the bid documents.



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13 COUNTER CONDITIONS

Bidders' attention is drawn to the fact that amendments to any of the Bid Conditions or setting of counter conditions by bidders may result in the invalidation of such bids.

14 FRONTING

- a. The Gauteng Department of Health supports the spirit of broad based black economic empowerment and recognizes that real empowerment can only be achieved through individuals and businesses conducting themselves in accordance with the Constitution and in an honest, fair, equitable, transparent and legally compliant manner. Against this background the National Treasury condemns any form of fronting.
- b. The Gauteng Department of Health, in ensuring that bidders conduct themselves in an honest manner will, as part of the bid evaluation processes, conduct or initiate the necessary enquiries/investigations to determine the accuracy of the representation made in bid documents.
- c. Should any of the fronting indicators as contained in the Guidelines on Complex Structures and Transactions and Fronting, issued by the Department of Trade and Industry, be established during such enquiry/investigation, the onus will be on the bidder / contractor to prove that fronting does not exist.
- d. Failure to do so within a period of 14 days from date of notification may invalidate the bid / contract and may also result in the restriction of the bidder/contractor to conduct business with the public sector for a period not exceeding ten years, in addition to any other remedies the National Treasury may have against the bidder/contractor concerned.

15 CONTRACT PERIOD

The contract shall be for a period of three years.

16 VALIDITY PERIOD

Bids are held to be valid for a period of one hundred and twenty (120) days after the closing date. Should a bidder retract his/her offer without good reason, in the opinion of the Department, they may be held responsible for the cost of a possible re-tender.

17 POST AWARD PARTICIPATION

In terms of Treasury Regulation 16A6.6, an Accounting Officer/Accounting Authority may, on behalf of the department, constitutional institution, public entity, request to participate in transversal term contracts arranged by means of a competitive bidding process by Gauteng Department of Health, subject to written approval by the BAC for Transversal Contracts and relevant contractors.



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SPECIAL CONDITIONS OF CONTRACT GT/GDH/124/2024: THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS

18 MERGERS, TAKE OVERS AND CHANGES IN SUPPLIER DETAIL

- a. Where a contracted supplier merges with or is taken over by another, the contracted supplier must inform the Department of Health in writing immediately (within seven days) of relevant details.
- b. The Department of Health reserves the right to agree to the transfer of contractual obligations to the new supplier under the prevailing conditions of contract or to cancel the contract.
- c. A contracted supplier must inform the Department of Health within seven days of any changes of address, name or banking details.

19 THIRD PARTIES

- a. Participating authorities will not make a payment to or consult regarding orders with a third party.
- b. No third party is entitled to put an account on hold.

20 USE OF FLUID CORRECTING SUBSTANCES

The use of any corrective fluid is strictly prohibited and will result into disqualification of a bidder from the process.

21 TENDER PRICE

The tender price must be clearly broken down into all the items that are included and the prices per item. All bidders must indicate whether an optional item in a brochure is required to meet the specification and if it is included in the tender price. The breakdown of the prices also assists if part payments have to be made. The following prices must be submitted and indicated separately:

- a. A detailed quotation that indicates what items are included and showing the breakdown of prices.
- b. The two-year warranty must be included in the unit price of the equipment. The purchase pricing schedule must be completed in full.
- c. The tender price must specify the standard items included in the equipment offered.
- d. The bidder must clearly distinguish the cost of the standard and the optional items (e.g., consumables) in the pricing schedule, as follows.
 1. The price of the unit.
 2. Warranty of two years.
 3. Maintenance contract.
 4. Optional items separately.



SPECIAL CONDITIONS OF CONTRACT GT/GDH/124/2024: THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS

22 THE COMPLETION OF THE PRICING SCHEDULE (ANNEXURE B)

Bidders are required to complete all the mandatory response fields in the tender pricing schedule for the equipment. The column for the bid price and the other columns in the Price Schedule as well as item questionnaires.

- a. Annexure B must be submitted as well as an electronic copy be in Excel format (not PDF), captured and saved on a memory stick.
- b. Hard Copy Format:
The original (hard copy) must be written clearly and legibly.
- c. Soft Copy Format:
- d. The electronic (soft copy) must be submitted on memory stick to the Gauteng Department of Health Tender Office. The memory stick must be clearly marked with the company name and tender number. The electronic copy in Excel format will form part of the evaluation worksheets of the bids.
- e. The price schedule in MS Excel format that is attached must be completed in order to submit it in original. The bidders must complete the Price Schedule in MS Excel format and submit it electronically.
- f. The bidders must ensure that there are no discrepancies between the electronic (soft-copy) saved on a memory stick and the original hard copy submissions of the Price Schedule. If any discrepancies are detected, the hard copy document will take precedence over the electronic copy. The Gauteng Department of Health may contact the bidder, but shall not be obliged to do so, for clarification regarding any discrepancies found.
- g. Each original bid with the memory stick must be submitted in a separate, sealed envelope to Gauteng Department of Health, Tender Box before the closing date and time. The name and address of the bidder, the bid number and the closing date must be clearly endorsed on the sealed envelope.



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23 ENQUIRIES

Technical Enquiries

Dr Eliada Georghiou:

E-mail: eliada.georghiou@gmail.com

Admin (SCM) Enquiries:

Acquisition Management:

Ms. Thabisile Matsebula

Thabisile.Matsebula@gauteng.gov.za



ANNEXURE A: TECHNICAL SPECIFICATION

GT/GDH/124/2024: THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).

LIST OF ITEMS

NO:	DESCRIPTION	BIDDER TO INDICATE WHICH ITEMS ARE INCLUDED IN THEIR BID PROPOSAL YES / NO
1	Infant Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) trainer	
2	Paediatric (Child) Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) Trainer	
3	Adult Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) Task Trainer	
4	Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) Family Task Trainer	
5	Infant Advanced Life Support Manikins (LSM)	
6	Paediatric Advanced Life Support Manikins (LSM)	
7	Adult Advanced Life Support Manikins (LSM)	
8	Premature High Fidelity Neonate Manikin	
9	Neonate High Fidelity Newborn Manikin	
10	Infant High Fidelity Manikin	
11	Paediatric (Child) High Fidelity Manikin	
12	Adult High Fidelity Manikin	
13	Infant Airway Training Kit	
14	Adult Surgical Airway Task Trainer	
15	Breathing Simulator	
16	Bronchoscopy Training Simulator	
17	Point of Care (POC) Ultrasound Simulator	
18	Adult Human Anatomy Skeleton	
19	Adult Orthopaedic Skeleton	
20	Wound Care Training Kit for Nursing	
21	Breast Examination Training Kit for Nursing	
22	Intravenous Arm Training Kit for Nursing	
23	Post Partum Examination Training	
24	Intra-Osseous Vascular Trainer	

25	Adult Simulation Manikin Training Kit for Nursing	
26	High Fidelity Adult Female Simulation Training Kit for Nursing	



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1. INFANT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TRAINER

Note:

1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.

3 Comments on the equivalent item must be provided on column E.

4 Bidder is required provide details of the product offer on column F.

5 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
1	General description:					
1.1	Full-body infant task trainer for individual and team training in Basic Life Support (BLS) cardiopulmonary resuscitation (CPR)with appropriate hardware					
1.2	Provide immediate feedback during CPR for learning while doing					
1.3	Detailed data recording of CPR metrics for feedback, record keeping and research					
2	Must demonstrate the following Airway Features:					
2.1	Anatomical airway obstruction if airway not properly opened					
3	Must support the following Airway Procedures:					
3.1	Head-tilt-chin lift					
3,2	Jaw thrust					
4	Must support the following Respiratory Support Procedures:					
4.1	Bag-valve-mask ventilation with chest rise					
5	Must demonstrate the following Anatomical Features:					
5.1	Identification of the sternal notch and xyphoid process for determining correct hand placement for chest compressions					
5.2	Realistic chest compliance on chest compression					
6	Must provide the following CPR performance feedback:					



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1. INFANT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TRAINER

Note:

1Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.

3Comments on the equivalent item must be provided on column E.

4Bidder is required provide details of the product offer on column F.

5Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
6.1	Graphic and numerical visual feedback on current evidence-based CPR performance parameters: hand position, compression-ventilation ratio, depth of compression, chest recoil, hands-off time and tidal volume delivery					
6.2	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
6.3	Immediate CPR performance graphic and numerical visual feedback for learning while doing CPR					
6.4	Both learner feedback system and instructor feedback with data capture system must function simultaneously					
7	Consumables / replacement parts supplied with system:					
7.1	Face skins					
7.2	Lungs					
7.3	Manikin clothing					
7.4	Basic tools for assembly					
7.5	Battery / power pack					
7.6	Charge cable					
7.7	Protective bag or case for storage and transport					
7.8	Chest skin					



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GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).

1. INFANT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TRAINER

Note:

1Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on column E.

3Bidder is required provide details of the product offer on column F.

4Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
7.9	Lungs					
7.10	Airway system					
7.11	Hardware:					
7.11.1	Device for immediate CPR performance feedback to person doing CPR					
7.12	Software:					
7.12.1	Simulator system providing student performance monitoring by instructor and detail CPR metrics data capture					



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2. PAEDIATRIC (CHILD) BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TRAINER

Note:

1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3 Bidder is required provide details of the product offer on column F.

4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
1	General description:					
1.1	Child manikin task trainer for individual and team training in Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) with appropriate hardware					
1.2	Provide immediate feedback during CPR for learning while doing (CPR)					
1.3	Provide detailed data recording of CPR metrics for feedback, for record keeping and research purposes					
2	Must demonstrate the following Airway Features:					
2.1	Jaw thrust					
3	Must support the following Respiratory Support Procedures:					
3.1	Bag-valve-mask ventilation with chest rise					
4	Must support the following Respiratory Support Procedures:					
4.1	Realistic chest compliance on chest compression					
5	Must provide the following CPR performance feedback:					
5.1	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
5.2	Immediate CPR performance graphic and numerical visual feedback for learning while doing (CPR)					
5.3	Both learner feedback system and instructor feedback with data capture system must function simultaneously					
6	Consumables and parts supplied with system:					
6.1	Device for immediate CPR performance feedback to person doing CPR					



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2. PAEDIATRIC (CHILD) BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TRAINER

Note:

1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3 Bidder is required provide details of the product offer on column F.

4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
6.2	Simulator system providing student performance monitoring by instructor and detail CPR metrics data capture					
6.3	Face skins					
6.4	Chest skins					
6.5	Manikin clothing					
6.6	Basic tools for assembly					
6.7	Battery / power pack					
6.8	Charge cable					
6.9	Protective bag or case for storage and transport					
7	Product Replacement Parts:					
7.1	Device for immediate CPR performance feedback to person doing CPR					
7.2	Simulator system providing student performance monitoring by instructor and detail CPR metrics data capture					
7.3	Chest skin					
7.4	Face skin					
7.5	Lungs					
7.6	Manikin clothing					
7.7	Battery / power pack					
7.8	Charge cable					
7.9	Hardware					



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3. ADULT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TASK TRAINER

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
1	General description:					
1.1	Adult task trainer for individual and team training in Basic Life Support (BLS) cardiopulmonary resuscitation (CPR) with appropriate hardware.					
1.2	Provide immediate feedback during CPR for learning while doing					
1.3	Provide detailed data recording of CPR metrics for feedback, record keeping and research					
2	Must demonstrate the following Airway Features:					
2.1	Anatomical airway obstruction if airway not properly opened					
3	Must support the following Airway Procedures:					
3.1	Head-tilt-chin lift					
3.2	Jaw thrust					
4	Must support the following Respiratory Support Procedures:					
4.1	Bag-valve-mask ventilation with chest rise					
5	Must demonstrate the following Anatomical Features:					
5.1	Sternal notch and xyphoid process for determining correct hand placement for chest compressions					
5.2	Palpable carotid pulse					
5.3	Realistic chest compliance on chest compression					
6	Must provide the following CPR performance feedback:					

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GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
3. ADULT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TASK TRAINER						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. 3 Comments on the equivalent item must be provided on Column E. 4 Bidder is required provide details of the product offer on column F. 5 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
6.1	Graphic and numerical visual feedback on current evidence-based CPR performance parameters: hand position, compression-ventilation ratio, depth of compression, chest recoil, hands-off time and tidal volume delivery					
6.2	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
6.3	Immediate CPR performance graphic and numerical visual feedback for learning while doing					
6.4	Both learner feedback system and instructor feedback with data capture system must function simultaneously					
7	Consumables,parts supplied with system on delivery:					
7.1	Device for immediate CPR performance feedback to person doing CPR					
7.2	Simulator system providing student performance monitoring by instructor and detail CPR metrics data capture					
7.3	Face skins					
7.4	Lungs					
7.5	Manikin clothing					
7.6	Basic tools for assembly					
7.7	Battery / power pack					
7.8	Charge cable					
7.9	Protective bag or case for storage and transport					



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3. ADULT BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) TASK TRAINER

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.

3

Comments on the equivalent item must be provided on Column E.

4

Bidder is required provide details of the product offer on column F.

5

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
7.10	Hardware					
8	Product Replacement Parts :					
8.1	Device for immediate CPR performance feedback to person doing CPR					
8.2	Simulator system providing student performance monitoring by instructor and detail CPR metrics data capture					
8.3	Chest skin					
8.4	Face skin					
8.5	Lungs					
8.6	Manikin clothing					
8.7	Battery / power pack					
8.8	Charge cable					
8.9	Hardware					

 ANNEXURE A: TECHNICAL SPECIFICATION						
GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
4. BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) FAMILY TASK TRAINER						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Age specific CPR training manikin family set for individual and team training in Basic Life Support (BLS) cardiopulmonary resuscitation (CPR)						
1	General description:					
1.1	Age specific CPR training manikin family set for individual and team training in Basic Life Support (BLS) cardiopulmonary resuscitation (CPR)					
1.2	Must include manikins for infant, paediatric and adult CPR training.					
1.3	Must include Automated External Defibrillator (AED) trainer as per evidence BLS practices					
2	Must demonstrate the following Airway Features:					
2.1	Realistic airway anatomy above the level of the vocal cords					
2.2	Anatomical airway obstruction if airway not properly opened					
2.3	Lung distension bag-valve-mask ventilation					
3	Must support the following Airway Procedures:					
3.1	Head-tilt-chin lift					
3.2	Jaw thrust					
3.3	Basic airway adjuncts: OPA and NPA					
4	Must support the following Respiratory Support Procedures:					
4.1	Bag-valve-mask ventilation with chest rise					
5	Must demonstrate the following Anatomical and Cardiac Features:					



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4. BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) FAMILY TASK TRAINER

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
5.1	Identification of the sternal notch and xyphoid process for determining correct hand placement for chest compressions					
5.2	Variable chest compliance for chest compression difficulty					
6	Must provide the following CPR performance feedback:					
6.1	Graphic and numerical visual feedback on current evidence-based CPR performance parameters: hand position, compression-ventilation ratio, depth of compression, chest recoil, hands-off time and tidal volume delivery					
6.2	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
6.3	Immediate CPR performance graphic and numerical visual feedback for learning while doing (CPR)					
7	Automated External Defibrillator trainer features:					
7.1	Realistic defibrillator training					
7.2	ECG library with multiple scenarios for shockable and non-shockable rhythms					
7.3	Latest EBM guidelines compliant					
7.4	Must include the training pads					
7.5	Must include a carry case					
8	Software and Operating System requirements:					
8.1	Touch-screen monitor for interaction with monitor parameters					
9	System Integration requirements:					

4. BLS CPR FAMILY TASK TRAINER

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 ANNEXURE A: TECHNICAL SPECIFICATION						
GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
4. BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) FAMILY TASK TRAINER						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
9.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
9.2	Both learner feedback system and instructor feedback with data capture system must function simultaneously					



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4. BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) FAMILY TASK TRAINER

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
10	Consumable, parts supplied with system on delivery:					
10.1	Lubricant for airway procedures					
10.2	Device for immediate CPR performance feedback to person doing CPR					
10.3	Simulator operating system including system that supports student performance monitoring by instructor and detail CPR metrics data capture					
10.4	AED replacement pads					
10.5	Manikin clothing					
10.6	Portable battery pack					
10.7	Charge cable					
10.8	Protective bag or case for storage and transport					
11	Product Consumables:					
11.1	Lubricant for airway procedures					
12	Product Replacement Parts:					
12.1	Device for immediate CPR performance feedback to person doing CPR					
12.2	Lung bladders					

 ANNEXURE A: TECHNICAL SPECIFICATION						
GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
4. BASIC LIFE SUPPORT (BLS) CARDIOPULMONARY RESUSCITATION (CPR) FAMILY TASK TRAINER						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
12.3	Manikin clothing					
12.4	Battery / power pack					
12.5	Charge cable					



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5. INFANT ADVANCED LIFE SUPPORT MANIKINS (LSM)

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "**YES / NO**" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body infant manikin simulator system for individual and team training in infant advanced life support cardiopulmonary resuscitation (CPR)						
1	General description:					
1.1	A life-sized, medium-fidelity infant manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to emergency medicine with cross-over application to other specialist medical disciplines					
1.2	An operating system that controls manikin cardiac rhythm. Assisted by cardiac rhythm generator					
2	Airway Features:					
2.1	Realistic airway anatomy with tongue, oropharynx, epiglottis, larynx, vocal cords, trachea and main bronchi (right and left diversions)					
2.2	Presents with the following airway complications:					
2.2.1	Right/left main stem bronchus intubation					
2.2.2	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
3	Airway Procedures:					
3.1	Basic airway manoeuvres:					
3.1.1	Head-tilt-chin lift					
3.1.2	Jaw thrust					
3.1.3	Oral and nasal suctioning (wet or dry)					
3.1.4	Basic airway adjuncts: oropharyngeal airway device and nasopharyngeal airway device					



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5. INFANT ADVANCED LIFE SUPPORT MANIKINS (LSM)

Note:

1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3 Bidder is required provide details of the product offer on column F.

4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
3.1.5	Laryngeal manoeuvre can be performed					
3.1.6	Oral Endotracheal and nasal endotracheal intubation					
3.1.7	Supraglottic airway device insertion: Laryngeal mask airway (LMA) LT (laryngeal tube)					
3.1.8	Specialised techniques: Bougie / light-wand, video laryngoscopy and fibreoptic assisted intubation					
4	Respiratory Features:					
4.1	Demonstrates unilateral and bilateral chest-wall movement					
5	Respiratory Support Procedures:					
5.1	Use of a wide range of oxygen delivery devices					
5.2	Bag-valve-mask ventilation with chest rise					
5.3	Supports basic to advanced ventilation management					
6	Circulatory Features:					
6.1	Palpable pulse (manually or electronically controlled): brachial pulse					
6.2	ECG features controlled by the rhythm generator					
7	Circulatory support procedures:					
7.1	Intra-osseus needle insertion					
7.2	CPR capable					
8	Software and Operating System requirements:					



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5. INFANT ADVANCED LIFE SUPPORT MANIKINS (LSM)

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "**YES / NO**" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
8.1	Battery operated rhythm generator simulator that connects to manikin or appropriate operating hardware					
9	Consumables ,parts supplied with system on delivery:					

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5. INFANT ADVANCED LIFE SUPPORT MANIKINS (LSM)						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
9.1	Pacing / defibrillation cable that integrates live pacing / defibrillation compatible with institutions defibrillator					
9.2	Lubricant for airway procedures					
9.3	IO replacement parts					
9.4	Manikin clothing					
9.5	Lung bladders					
9.6	Basic tools for assembly					
9.7	Protective bag or case for storage and transport					
10	Product Consumables:					
10.1	Lubricant for airway procedures					
10.2	Replacement parts for IO					
11	Product Replacement Parts:					
11.1	3 lead ECG cables					
11.2	Airway system					
11.3	Lung bladders					
11.4	Chest skin					
11.5	Manikin clothing					
11.6	ECG leads to connect to the simulator device (interface cable)					

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6. PAEDIATRIC ADVANCED LIFE SUPPORT MANIKINS (LSM)						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
A	B	C	D	E	F	G
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body paediatric manikin simulator system for individual and team training in paediatric advanced life support cardiopulmonary resuscitation (CPR)						
1	General description:					
1.1	Full-body paediatric manikin simulator system for individual and team training in paediatric advanced life support cardiopulmonary resuscitation (CPR) with appropriate hardware					
1.2	Provide immediate feedback during CPR for learning while doing (CPR)					
1.3	Detailed data recording of CPR performance parameters for feedback, record keeping and research purposes					
2	Must demonstrate the following Airway Features:					
2.1	Realistic airway anatomy to the level of the main bronchi					
2.2	Anatomical airway obstruction if airway not properly opened					
2.3	Stomach distension with aggressive bag-valve-mask ventilation/oesophageal intubation					
3	Must support the following Airway Procedures:					
3.1	Head-tilt-chin lift					
3.2	Jaw thrust					
3.3	Basic airway adjuncts: OPA and NPA					
3.4	Supraglottic airway device insertion					
3.5	Oral and nasal endotracheal intubation					
4	Must support the following Respiratory Support Procedures:					
4.1	Bag-valve-mask ventilation with chest rise					
4.2	Unilateral chest rise with left/right main stem intubation					
5	Must demonstrate the following Anatomical and Cardiac Features:					
5.1	Identification of the sternal notch and xyphoid process for determining correct hand placement for chest compressions					
5.2	ECG library with appropriate peri-arrest and cardiac arrest rhythms					
5.3	Clinical evidence of effective CPR: ECG compression artefact and palpable carotid pulses					
6	Must support the following Circulatory support procedures:					
6.1	Live defibrillation and synchronised cardioversion with paddles or pads (real or training) at full energy levels.					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
6.2	Live transcutaneous pacing with delivery of full energy via real or training pads with programmable threshold capture and achievement of electrical and mechanical capture. Pacing connectors must be included / compatible to the institution's					
7	Must provide the following CPR performance feedback:					
7.1	Graphic and numerical visual feedback on current evidence-based CPR performance parameters: hand position, compression-ventilation ratio, depth of compression, chest recoil, hands-off time and tidal					
7.2	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
7.3	Immediate CPR performance graphic and numerical visual feedback for learning while doing CPR					
8	Additional required features:					
8.1	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing and moaning					
8.2	Capable of communicating as the voice of patient					
9	Virtual Patient Monitor features (optional):					
9.1	The patient monitor must integrate with the manikin operating system					
9.2	Touch-screen interaction with patient monitor settings and parameters					
9.3	Various monitor options: basic to advanced monitor simulation options					
9.4	The monitor must display a selection of the following programmable					
9.4.1	3-Lead ECG (Lead I, II or III)					
9.4.2	SpO2 – numerical and plethysmograph display					
9.4.3	ETCO2 with variable waveform morphology					
9.4.4	NIBP with manual and automatic cycling with cycle time-interval selection					
9.4.5	Temperature (peripheral and core)					
9.4.6	Invasive monitoring with waveform					
10	Software and Operating System requirements:					
10.1	Battery operated rhythm generator simulator that connects to manikin or appropriate operating hardware					
11	System Integration requirements:					
11.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
11.2	Both learner feedback system and instructor feedback with data capture system must function simultaneously					
12	Consumables,parts supplied with system on delivery:					
12.1	Lubricant for airway procedures					
12.2	IV arm skin and vein set					
12.3	Device for immediate CPR performance feedback to person doing CPR					
12.4	Simulator operating system including system that supports student performance monitoring by instructor and detail CPR metrics data capture					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
12.5	Virtual patient monitor					
12.6	Manual defibrillation plates / pads					
12.7	Connectors for pacing / defibrillation cables					
12.8	Pacing / defibrillation cable that integrates live pacing / defibrillation compatible with institutions defibrillator					
12.9	Pulse oximeter probe for manikin					
12.10	BP cuff for manikin					
12.11	Manikin clothing					
12.12	Basic tools for assembly					
12.13	Portable battery pack					
12.14	Charge cable					
12.15	Protective bag or case for storage and transport					
12.16	Appropriate operating hardware					
13	Product Consumables:					
13,1	Lubricant for airway procedures					
14	Product Replacement Parts:					
14.1	Simulated SpO2 probe					
14.2	Virtual patient monitor system					
14.3	Simulator operating system including system that supports student performance monitoring by instructor and detail CPR metrics data capture					
14.4	Device for immediate CPR performance feedback to person doing CPR					
14.5	Shock absorption system					
14.6	Chest skin					
14.7	Airway system					
14.8	Lung bladders					
14.9	Manikin clothing					
14.10	Battery / power pack					
14.11	Charge cable					

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7. ADULT ADVANCED LIFE SUPPORT MANIKINS (LSM)						
1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body adult manikin simulator system for individual and team training in advanced cardiac life support (ACLS) cardiopulmonary resuscitation (CPR)						
1	General description:					
1.1	Full-body adult manikin simulator system for individual and team training in advanced cardiac life support (ACLS) cardiopulmonary resuscitation (CPR) with appropriate hardware					
1.2	Provide immediate feedback during CPR for learning while doing (CPR)					
1.3	Detailed data recording of CPR performance parameters for feedback, record keeping and research purposes					
2	Must demonstrate the following Airway Features:					
2.1	Realistic airway anatomy to the level of the main bronchi					
2.2	Anatomical airway obstruction if airway not properly opened					
2.3	Stomach distension with aggressive bag-valve-mask ventilation/oesophageal intubation					
3	Must support the following Airway Procedures:					
3.1	Head-tilt-chin lift					
3.2	Jaw thrust					
3.3	Basic airway adjuncts: OPA and NPA					
3.4	Supraglottic airway device insertion					
3.5	Oral endotracheal intubation					
4	Must support the following Respiratory Support Procedures:					
4.1	Bag-valve-mask ventilation with chest rise					
4.2	Unilateral chest rise with left/right main stem intubation					
5	Must demonstrate the following Anatomical and Cardiac Features:					
5.1	Identification of the sternal notch and xyphoid process for determining correct hand placement for chest compressions					
5.2	ECG library with appropriate peri-arrest and cardiac arrest rhythms					
5.3	Clinical evidence of effective CPR: ECG compression artefact and palpable carotid pulses					
6	Must support the following Circulatory support procedures:					
6.1	IV access with real-time drug and fluid administration capability					
6.2	Live defibrillation and synchronised cardioversion with paddles or pads (real or training) at full energy levels.					
6.3	Live transcutaneous pacing with delivery of full energy via real or training pads with programmable threshold capture and achievement of electrical and mechanical capture. Pacing connectors must be included (compatible to the institution's defibrillators).					
7	Must provide the following CPR performance feedback:					
7.1	Graphic and numerical visual feedback on current evidence-based CPR performance parameters: hand position, compression-ventilation ratio, depth of compression, chest recoil, hands-off time and tidal volume delivery					
7.2	Detailed analysis of average CPR performance over the total time over which CPR was performed (individual and team)					
7.3	Immediate CPR performance graphic and numerical visual feedback for learning while doing (CPR)					
8	Additional required features:					
8.1	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing and moaning					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
8.2	Capable of communicating as the voice of patient					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
9	Virtual Patient Monitor features (optional):					
9.1	The patient monitor must integrate with the manikin operating system					
9.2	Touch-screen interaction with patient monitor settings and parameters					
9.3	Variable monitor options: AED, monitor with interactive pacing and defibrillation, advanced monitor as described below:					
9.3.1	3-Lead ECG (Lead I, II or III)					
9.3.2	SpO2 – numerical and plethysmograph display					
9.3.3	ETCO2 with variable waveform morphology					
9.3.4	NIBP with manual and automatic cycling with cycle time-interval selection					
9.3.5	Temperature (peripheral and core)					
9.3.6	Invasive monitoring with waveform morphology.					
10	Software and Operating System requirements:					
10.1	Battery operated rhythm generator simulator that connects to manikin or appropriate operating hardware					
11	System Integration requirements:					
11.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
11.2	Both learner feedback system and instructor feedback with data capture system must function simultaneously					
12	Consumables ,parts supplied with system on delivery:					
12.1	Lubricant for airway procedures					
12.2	IV arm skin and vein set					
12.3	Device for immediate CPR performance feedback to person doing CPR					
12.4	Simulator operating system including system that supports student performance monitoring by instructor and detail CPR metrics data capture					
12.5	Virtual patient monitor					
12.6	Manual defibrillation plates / pads					
12.7	Connectors for pacing / defibrillation cables					
12.8	Pacing / defibrillation cable that integrates live pacing / defibrillation compatible with institutions defib					
12.9	Pulse oximeter probe for manikin					
12.10	BP cuff for manikin					
12.11	Manikin clothing					
12.12	Basic tools for assembly					
12.13	Portable battery pack					
12.14	Charge cable					
12.15	Protective bag or case for storage and transport					
13	Product Consumables:					
13.1	Lubricant for airway procedures					
14	Product Replacement Parts:					
14.1	Simulated SpO2 probe					
14.2	Virtual patient monitor system					
14.3	Simulator operating system including system that supports student performance monitoring by instructor and detail CPR metrics data capture					
14.4	Device for immediate CPR performance feedback to person doing CPR					
14.5	Shock absorption system					
14.6	Chest skin					
14.7	Airway system					
14.8	Lung bladders					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
14.9	Manikin clothing					
14.10	Battery / power pack					
14.11	Charge cable					
14.12	Replacement skin and veins for IV access					

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8. PREMATURE HIGH FIDELITY NEONATE MANIKIN						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body high-fidelity premature neonate manikin simulator system						
1	General description:					
1.1	A life-sized, high-fidelity premature neonate manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to anaesthesia with cross-over application to other specialist medical disciplines					
1.2	An operating system that controls manikin features and integrates with the patient monitor					
1.3	An interactive, life-like patient monitor that integrates with manikin functionality and reflects parameters essential for anaesthesia					
2	Gender & Cultural Features:					
2.1	Applicable culturally-sensitive skin tones					
3	Airway Features:					
3.1	Realistic airway anatomy to the level of the primary bronchi					
3.2	Presents with the following airway complications:					
3.2.1	Right mainstem bronchus intubation					
3.2.2	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
4	Airway Procedures:					
4.1	Basic airway manoeuvres					
4.1.1	Neutral positioning of the head					
4.1.2	Oral and nasal suctioning (wet or dry)					
4.1.3	Oro- and nasotracheal intubation					
4.1.4	Supraglottic airway device insertion: LMA					
4.1.5	Specialised techniques: Bougie / light-wand, video laryngoscopy and fibreoptic assisted intubation					
5	Respiratory Features:					
5.1	Auscultation of lung sounds over anatomically correct lung fields					
5.2	Programmable lung sounds with normal and abnormal sounds and volumes					
5.3	Displays central cyanosis					
6	Respiratory Support Procedures:					
6.1	Use of a wide range of oxygen delivery devices					
6.2	Bag-valve-mask ventilation with chest rise					
7	Circulatory Features:					
7.1	Palpable pulses: umbilical					
7.2	Extensive ECG library with interactive programmable features (morphology, rate, artefact, ectopic presence and frequency)					
7.3	Pulses synchronised with ECG and BP (pulse volume/strength)					
7.4	Auscultation of heart sounds (normal and pathological)					
7.5	Measurement of BP: NIBP					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
8	Circulatory support procedures:					
8.1	Umbilical vein cannulation with real-time drug and fluid administration capability					
8.2	IV access with real-time drug and fluid administration capability					
8.3	IO access with appropriate IO access method supporting real-time drug and fluid administration					
8.4	CPR capable, providing feedback on evidence-based CPR metrics: compression-ventilation ratio, depth of compression, chest recoil, hands-off time					
8.5	Clinical evidence of effective CPR: ECG compression artefact and palpable pulses					
9	Pharmacology:					
9.1	Manual drug-recognition system with programmable drug-responses					
9.2	Comprehensive and programmable drug formulary					
9.3	Electronic data capture of drug volume and dose administered					
10	Additional required features:					
10.1	Body motion representing normal and abnormal movements including seizures					
10.2	Palpable fontanelles presenting with bulging					
10.3	Variable pupil size and response to light					
10.4	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing, and crying					
11	Virtual Patient Monitor features:					
11.1	The patient monitor must integrate with the manikin operating system					
11.2	Select and arrange physiological parameters to display on the patient monitor					
11.3	Touch-screen interaction with patient monitor settings and parameters					
11.4	The monitor must display a selection of the following programmable parameters:					
11.4.1	3-Lead ECG (Lead I, II or III)					
11.4.2	SpO2 – numerical and plethysmograph display					
11.4.3	ETCO2 with variable waveform morphology					
11.4.4	NIBP with manual and automatic cycling with cycle time-interval selection					
11.4.5	Temperature (peripheral and core)					
11.5	Display the following anaesthetic agents and gases:					
11.5.1	Oxygen (inO2 and etO2)					
11.5.2	Anaesthetic Agent					
11.5.3	Nitrous Oxide (inN2O and etN2O)					
11.5.4	Sevoflurane (inSEV and etSEV)					
11.5.5	Desflurane (inDES and etDES)					
11.5.6	Isoflurane (inISO and etISO)					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
12	Software and Operating System requirements:					
12.1	The manikin operating system and virtual patient monitor must be supported by appropriate current operating software					
12.2	Touch-screen monitor for interaction with monitor parameters					
13	System Integration requirements:					
13.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
14	Consumables ,parts supplied with system on delivery:					
14.1	Lubricant for airway procedures					
14.2	IO replacement parts					
14.3	IV arm skin and vein set					
14.4	Umbilical cords for cannulation					
14.5	Simulated blood					
14.6	Pulse oximeter probe for manikin					
14.7	BP cuff					
14.8	Manikin clothing					
14.9	Lung bladders					
14.10	Basic tools for assembly					
14.11	Portable battery pack					
14.12	Charge cable					
14.13	Protective bag or case for storage and transport					
15	Product Consumables:					
15.1	Lubricant for airway procedures					
15.2	Replacement parts for IO					
15.3	Simulated blood					
15.4	Umbilical cords for cannulation					
16	Product Replacement Parts:					
16.1	Simulated SpO2 probe					
16.2	Virtual patient monitor system					
16.3	Simulator operating system					
16.4	Compressor for spontaneous breathing					
16.5	Airway system					
16.6	Lung bladders					
16.7	Manikin clothing					
16.8	Battery / power pack					
16.9	Charge cable					
16.10	Replacement skin and veins for IV access					
16.11	Chest skin					



GAUTENG PROVINCE
HEALTH
REPUBLIC OF SOUTH AFRICA

ANNEXURE A: TECHNICAL SPECIFICATION

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9. NEONATE HIGH FIDELITY NEWBORN MANIKIN

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body high-fidelity newborn manikin simulator system						
1	General description:					
1.1	A life-sized, high-fidelity newborn manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to anaesthesia with cross-over application to other specialist medical disciplines					
1.2	An operating system that controls manikin features and integrates with the patient monitor					
1.3	An interactive, life-like patient monitor that integrates with manikin functionality and reflects parameters essential for anaesthesia					
2	Gender & Cultural Features:					
2.1	Applicable culturally-sensitive skin tones					
3	Airway Features:					
3.1	Realistic airway anatomy to the level of the primary bronchi					
3.2	Presents with the following airway complications:					
3.2.1	Right mainstem bronchus intubation					
3.2.2	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
4	Airway Procedures:					
4,1	Basic airway manoeuvres					
4.1.1	Neutral positioning of the head					
4.1.2	Oral and nasal suctioning (wet or dry)					
4.1.3	Basic airway adjuncts: OPA and NPA					
4.1.4	Oro- and nasotracheal intubation					
4.1.5	Supraglottic airway device insertion: LMA					
4.1.6	Specialised techniques: Bougie / light-wand, video laryngoscopy and fiberoptic assisted intubation					
5	Respiratory Features:					
5.1	Lung recruitment					
5.2	Auscultation of lung sounds over anatomically correct lung fields					
5.3	Programmable lung sounds with normal and abnormal sounds and volumes					
5.4	Spontaneous breathing					
5.5	Demonstrates unilateral and bilateral chest-wall movement					
5.6	Displays central cyanosis					
6	Respiratory Support Procedures:					
6,1	Use of a wide range of oxygen delivery devices					
6,2	Bag-valve-mask ventilation with chest rise					
6,3	Needle thoracentesis					
7	Circulatory Features:					
7,1	Capillary refill assessment – central and peripheral					
7,2	Palpable pulses: umbilical					
7,3	Extensive ECG library with interactive programmable features (morphology, rate, artefact, ectopic presence and frequency)					

9. NEONATE HF NEWBORN MANIKIN

1 of 3

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
7,4	Pulses synchronised with ECG and BP (pulse volume/strength)					
7,5	Auscultation of heart sounds (normal and pathological)					
7,6	Measurement of BP: NIBP					
8	Circulatory support procedures:					
8.1	Umbilical vein cannulation with real-time drug and fluid administration capability					
8.2	IV access with real-time drug and fluid administration capability					
8.3	IO access with appropriate IO access method supporting real-time drug and fluid administration					
8.4	CPR capable, providing feedback on evidence-based CPR metrics: compression-ventilation ratio, depth of compression, chest recoil, hands-off time					
8.5	Clinical evidence of effective CPR: ECG compression artefact and palpable pulses					
9	Pharmacology:					
9.1	Manual drug-recognition system with programmable drug-responses					
9.2	Comprehensive and programmable drug formulary					
9.3	Electronic data capture of drug volume and dose administered					
10	Additional required features:					
10.1	Body motion representing normal and abnormal movements including seizures					
10.2	Palpable fontanelles presenting with bulging					
10.3	Variable pupil size and response to light					
10.4	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing, and crying					
11	Virtual Patient Monitor features:					
11.1	The patient monitor must integrate with the manikin operating system					
11.2	Select and arrange physiological parameters to display on the patient monitor					
11.3	Touch-screen interaction with patient monitor settings and parameters					
11.4	Variable monitor options: AED, monitor with interactive pacing and defibrillation, advanced monitor as described below. The advanced monitor must display a selection of the following programmable parameters:					
11.4.1	3-Lead ECG (Lead I, II or III)					
11.4.2	SpO2 – numerical and plethysmograph display					
11.4.3	ETCO2 with variable waveform morphology					
11.4.4	NIBP with manual and automatic cycling with cycle time-interval selection					
11.4.5	Cardiac output					
11.4.6	Arterial BP					
11.4.7	Time of flight (TOF) sensor					
11.4.8	Temperature (peripheral and core)					
11.5	Display the following anaesthetic agents and gases:					
11.5.1	Oxygen (inO2 and etO2)					
11.5.2	Anaesthetic agent					
11.5.3	Nitrous Oxide (inN2O and etN2O)					
11.5.4	Sevoflurane (inSEV and etSEV)					
11.5.5	Desflurane (inDES and etDES)					
11.5.6	Isoflurane (inISO and etISO)					
12	Software and Operating System requirements:					
12.1	The manikin operating system and virtual patient monitor must be supported by an appropriate current operating software					
12.2	Touch-screen monitor for interaction with monitor parameters					
13	System Integration requirements:					
13.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
14	Consumables, parts supplied with system on delivery:					
14.1	Lubricant for airway procedures					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
14.2	Needle decompression bladders					
14.3	Replacement pads for needle decompression					
14.4	IO replacement parts					
14.5	IV arm skin and vein set					
14.6	Umbilical cords for cannulation					
14.7	Simulated blood					
14.8	Pulse oximeter probe for manikin					
14.9	BP cuff					
14.10	Manikin clothing					
14.11	Lung bladders					
14.12	Basic tools for assembly					
14.13	Portable battery pack					
14.14	Charge cable					
14.15	Protective bag or case for storage and transport					
15	Product Consumables:					
15.1	Lubricant for airway procedures					
15.2	Replacement bladders for needle decompression					
15.3	Replacement pads for needle decompression					
15.4	Replacement parts for IO					
15.5	Simulated blood					
15.6	Umbilical cords for cannulation					
16	Product Replacement Parts:					
16.1	Simulated SpO2 probe					
16.2	Virtual patient monitor system					
16.3	Simulator operating system					
16.4	Compressor for spontaneous breathing					
16.5	Airway system					
16.6	Lung bladders					
16.7	Manikin clothing					
16.8	Battery / power pack					
16.9	Charge cable					
16.10	Chest skin					
16.11	Replacement skin and veins for IV access					

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10. INFANT HIGH FIDELITY MANIKIN						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body high-fidelity infant manikin simulator system						
1	General description:					
1.1	A life-sized, high-fidelity infant manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to anaesthesia with cross-over application to other specialist medical disciplines					
1.2.	An operating system that controls manikin features and integrates with the patient monitor					
1.3.	An interactive, life-like patient monitor that integrates with manikin functionality and reflects parameters essential for anaesthesia with cross-over applications to other specialist medical disciplines					
2	Gender & Cultural Features:					
2.1	Applicable culturally-sensitive skin tones					
3	Airway Features:					
3.1	Realistic airway anatomy to the level of the primary bronchi					
3.2	Presents with the following airway complications:					
3.2.1	Tongue oedema					
3.2.2	Pharyngeal oedema					
3.2.3	Laryngospasm					
3.2.4	Difficult airway configuration					
3.2.5	Right mainstem bronchus intubation					
3.2.6	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
4.	Airway Procedures:					
4.1.	Basic airway manoeuvres:					
4.1.1	Head-tilt-chin lift					
4.1.2	Jaw thrust					
4.1.3	Oral and nasal suctioning (wet or dry)					
4.1.4	Basic airway adjuncts: OPA and NPA					
4.1.5	Oro- and nasotracheal intubation					
4.1.6	Supraglottic airway device insertion: LMA					
4.1.7	Specialised techniques: Bougie / light-wand, video laryngoscopy and fibreoptic assisted intubation					
5	Respiratory Features:					
5.1	Variable settings for lung resistance and compliance					
5.2	Anterior and posterior auscultation of lung sounds over anatomically correct lung fields					
5.3	Programmable lung sounds with normal and abnormal sounds and volumes					
5.4	Spontaneous breathing with abnormal breathing patterns such as sternal recession and see-saw breathing					
5.5	Demonstrates unilateral and bilateral chest-wall movement					
5.6	Displays central cyanosis					
6	Respiratory Support Procedures:					
6.1	Use of a wide range of oxygen delivery devices					
6.2	Bag-valve-mask ventilation with chest rise					
6.3	Needle thoracentesis					
6.4	Formal chest drain insertion					
6.5	Supports basic to advanced ventilation management or can integrate a breathing simulator for this purpose					
7	Circulatory Features:					
7.1	Capillary refill assessment – central and peripheral					
7.2	Bilateral palpable pulses: carotid and femoral					
7.3	Extensive ECG library with interactive programmable features (morphology, rate, artefact, ectopic presence and frequency)					
7.4	Pulses synchronised with ECG and BP (pulse volume/strength)					
7.5	Auscultation of heart sounds (normal and pathological)					
7.6	Measurement of BP: manual and NIBP					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
8	Circulatory support procedures:					
8.1	IV access with real-time drug and fluid administration capability					
8.2	IO access with appropriate IO access method supporting real-time drug and fluid administration					
8.3	CPR capable, providing feedback on evidence-based CPR metrics: compression-ventilation ratio, depth of compression, chest recoil, hands-off time					
8.4	Clinical evidence of effective CPR: ECG compression artefact and palpable pulses					
8.5	Live defibrillation and synchronised cardioversion with pads (real or training) at full energy levels					
8.6	Live transcutaneous pacing with delivery of full energy via real or training pads					
9	Pharmacology:					
9.1	Manual drug-recognition system with programmable drug-responses					
9.2	Comprehensive and programmable drug formulary					
9.3	Electronic data capture of drug volume and dose administered					
10	Additional required features:					
10.1	Body motion representing normal and abnormal movements including focal and generalised motor seizures					
10.2	Presents with normal and enlarged liver					
10.3	Palpable fontanelles presenting with bulging					
10.4	Programmable eyelid blinking, pupil dilation and response to light					
10.5	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing, and crying					
11	Virtual Patient Monitor features:					
11.1	Select and arrange physiological parameters to display on the patient monitor					
11.2	Touch-screen interaction with patient monitor settings and parameters					
11.3	Variable monitor options: AED, monitor with interactive pacing and defibrillation, advanced monitor					
11.4	The advanced monitor must display a selection of the following programmable parameters:					
11.4.1	Lead ECG (Lead I, II or III)					
11.4.2	SpO2 – numerical and plethysmograph display					
11.4.3	ETCO2 with variable waveform morphology					
11.4.4	NIBP with manual and automatic cycling with cycle time-interval selection					
11.4.5	Cardiac output					
11.4.6	Arterial BP					
11.4.7	TOF					
11.4.8	Temperature (peripheral and core)					
11.5	Display the following anaesthetic agents and gases:					
11.5.1	Oxygen (inO2 and etO2)					
11.5.2	Anaesthetic agent					
11.5.3	Nitrous Oxide (inN2O and etN2O)					
11.5.4	Sevoflurane (inSEV and etSEV)					
11.5.5	Desflurane (inDES and etDES)					
11.5.6	Isoflurane (inISO and etISO)					
12	Software and Operating System requirements:					
12.1	The manikin operating system and virtual patient monitor must be supported by a current operating software					
12.2	Touch-screen monitor for interaction with monitor parameters					
13	System Integration requirements:					
13.1	Must be able to integrate with a breathing simulator enabling basic to advanced real-time ventilatory management of the infant manikin across all modes of ventilation and PEEP settings while generating real tidal volume					
13.2	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research					
14	Servicing and Repair requirements:					
14.1	Servicing and repair must be supported in South Africa					
15	Consumables ,parts supplied with system on delivery					
15.1	Lubricant for airway procedures					
15.2	Needle decompression bladders					
15.3	IO replacement parts					
15.4	IV arm skin and vein set					
15.5	Formal chest-drain replacement parts					
15.6	Pacing / defibrillation cable that integrates live pacing / defibrillation ,must be compatible with the defibrillator of the institution					
15.7	Training pads that integrate with training cable					
15.8	Pulse oximeter probe for manikin					
15.9	BP cuff					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
15.10	Manikin clothing					
15.11	Lung bladders					
15.12	Basic tools for assembly					
15.13	Portable battery pack					
15.14	Charge cable					
15.15	Protective bag or case for storage and transport					
16	Product Consumables:					
16.1	Lubricant for airway procedures					
16.2	Replacement bladders for needle decompression					
16.3	Replacement pads for needle decompression					
16.4	Replacement pads for formal chest drain					
16.5	Replacement parts for IO					
16.6	Training pads for pacing / defibrillation					
17	Product Replacement Parts:					
17.1	Simulated SpO2 probe					
17.2	Virtual patient monitor system					
17.3	Simulator operating system					
17.4	Compressor for spontaneous breathing					
17.5	Airway system					
17.6	Lung bladders					
17.7	Chest skin					
17.8	Manikin clothing					
17.9	Battery / power pack					
17.10	Charge cable					
17.11	Replacement skin and veins for IV access					

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11. PAEDIATRIC (CHILD) HIGH FIDELITY MANIKIN						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body high-fidelity child manikin simulator system						
1	General description:					
1.1	A life-sized, high-fidelity child manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to anaesthesia with cross-over application to other specialist medical disciplines					
1.2	An operating system that controls manikin features and integrates with the patient monitor					
1.3	An interactive, life-like patient monitor that integrates with manikin functionality and reflects parameters essential for anaesthesia with cross-over to other specialist medical disciplines					
2	Gender & Cultural Features:					
2.1	Applicable culturally-sensitive skin tones					
3	Airway Features:					
3.1	Realistic airway anatomy to the level of the primary bronchi					
3.2	Presents with the following airway complications:					
3.2.1	Tongue oedema					
3.2.2	Airway obstruction					
3.2.3	Right mainstem bronchus intubation					
3.2.4	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
4	Airway Procedures:					
4.1	Basic airway manoeuvres:					
4.1.1	Head-tilt-chin lift					
4.1.2	Jaw thrust					
4.1.3	Oral and nasal suctioning (wet or dry)					
4.1.4	Basic airway adjuncts: OPA and NPA					
4.1.5	Oro- and nasotracheal intubation					
4.1.6	Supraglottic airway device insertion: LMA LTA					
4.1.7	Specialised techniques: Bougie / light-wand, video laryngoscopy and fiberoptic assisted intubation					
4.1.8	Needle cricothyroidotomy					
4.1.9	Surgical cricothyroidotomy					
5	Respiratory Features:					
5.1	Auscultation of lung sounds					
5.2	Independently programmable lung sounds					
5.3	Spontaneous breathing with options for unilateral and bilateral chest-wall movement					
6	Respiratory Support Procedures:					
6.1	Use of a wide range of oxygen delivery devices					
6.2	Bag-valve-mask ventilation with chest rise					
7	Circulatory Features:					
7.1	Palpable pulses					
7.2	Extensive ECG library with interactive programmable features (morphology, rate, artefact, ectopic presence and frequency)					
7.3	Pulses synchronised with ECG and BP (pulse volume/strength)					
7.4	Auscultation of heart sounds library of heart sound options (normal and pathological)					
7.5	Measurement of BP: manual and NIBP					
8	Circulatory support procedures:					
8.1	IV access with real-time drug and fluid administration capability					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
8.2	IO access with appropriate IO access method and real-time drug and fluid administration capability					
8.3	CPR capable with clinical evidence of effective CPR: ECG compression artefact and palpable carotid pulses					
8.4	Live defibrillation and synchronised cardioversion with paddles or pads (real or training) at full energy levels					
8.5	Live transcutaneous pacing with delivery of full energy via real or training pads with programmable threshold capture and achievement of electrical and mechanical capture					
9	Pharmacology:					
9.1	Comprehensive and programmable drug formulary					
9.2	Data entry on drug and drug dose administration					
9.3	Programmable drug response					
10	Additional required features:					
10.1	Body motion representing seizures					
10.2	Pupil size variation					
10.3	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing and moaning					
10.4	Capable of communicating as the voice of patient					
11	Virtual Patient Monitor features:					
11.1	The patient monitor must integrate with the manikin operating system					
11.2	Select and arrange physiological parameters to display on the patient monitor					
11.3	Touch-screen interaction with patient monitor settings and parameters					
11.4	Variable monitor options: AED, monitor with interactive pacing and defibrillation, advanced monitor. The advanced monitor must display a selection of the following programmable parameters:					
11.4.1	3-Lead ECG (Lead I, II or III)					
11.4.2	Generation of real-time 12-Lead ECG (on-screen and printable version)					
11.4.3	SpO2 – numerical and plethysmograph display					
11.4.4	ETCO2 with variable waveform morphology					
11.4.5	NIBP with manual and automatic cycling with cycle time-interval selection					
11.4.6	Cardiac output					
11.4.7	Arterial BP					
11.4.8	TOF					
11.4.9	Temperature (peripheral and core)					
11.5	Display the following anaesthetic agents and gases:					
11.5.1	Oxygen (inO2 and etO2)					
11.5.2	Anaesthetic agent					
11.5.3	Nitrous Oxide (inN2O and etN2O)					
11.5.4	Sevoflurane (inSEV and etSEV)					
11.5.5	Desflurane (inDES and etDES)					
11.5.6	Isoflurane (inISO and etISO)					
12	Software and Operating System requirements:					
12.1	The manikin operating system and virtual patient monitor must be supported by an appropriate current operating software					
12.2	Touch-screen monitor for interaction with monitor parameters					
13	System Integration requirements:					
13.1	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
14	Servicing and Repair requirements:					
14.1	Servicing and repair must be supported in South Africa					
15	Consumables ,parts supplied with system on delivery:					
15.1	Lubricant for airway procedures					
15.2	IO replacement set					
15.3	Manual defibrillation plates / pads					
15.4	Connectors for pacing / defibrillation cables					
15.5	Pacing / defibrillation cable that integrates live pacing / defibrillation					
15.6	Pulse oximeter probe for manikin					
15.7	BP cuff for manikin					
15.8	Manikin clothing					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
15.9	Lung bladders					
15.10	Basic tools for assembly					
15.11	Portable battery pack					
15.12	Charge cable					
15.13	Protective bag or case for storage and transport					
15.14	IV arm skin and vein set					
16	Product Consumables:					
16.1	Lubricant for airway procedures					
16.2	IO replacement set					
17	Product Replacement Parts:					
17.1	Simulated SpO2 probe					
17.2	Virtual patient monitor system					
17.3	Simulator operating system					
17.4	Compressor for spontaneous breathing					
17.5	Chest skin					
17.6	Airway system					
17.7	Lung bladders					
17.8	Manikin clothing					
17.9	Battery / power pack					
17.10	Charge cable					
17.11	IV arm skin and vein set					



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12. ADULT HIGH FIDELITY MANIKIN

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

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Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full-body high-fidelity adult manikin simulator.						
1	General description:					
1.1	A life-sized, high-fidelity adult manikin with interactive patient-like features that accurately reflects a broad spectrum of clinical conditions and emergencies relevant to anaesthesia with cross-over application to other specialist medical disciplines					
1.2	An operating system that controls manikin features and integrates with the patient monitor					
1.3	An interactive, life-like patient monitor that integrates with manikin functionality and reflects parameters essential for anaesthesia with cross-over application to other specialist medical disciplines					
2	Gender & Cultural Features:					
2.1	Applicable culturally-sensitive skin tones					
2.2	Interchangeable genitalia (male / female) with catheterisation capability					
3	Airway Features:					
3.1	Realistic airway anatomy to the level of the primary bronchi					
3.2	Presents with the following airway complications:					
3.2.1	Trismus					
3.2.2	Tongue oedema					
3.2.3	Pharyngeal oedema					
3.2.4	Laryngospasm					
3.2.5	Decreased range of cervical spine motion					
3.2.6	Difficult airway configuration					
3.2.7	Right mainstem bronchus intubation					
3.2.8	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
4	Airway Procedures:					
4.1	Basic airway manoeuvres:					
4.1.1	Head-tilt-chin lift					
4.1.2	Jaw thrust					
4.1.3	Oral and nasal suctioning (wet or dry)					
4.1.4	Basic airway adjuncts: OPA and NPA					
4.1.5	Oro- and nasotracheal intubation					
4.1.6	Supraglottic airway device insertion: LMA LTA					
4.1.7	Specialised techniques: Bougie / light-wand, video laryngoscopy and fibreoptic assisted intubation					
4.1.8	Needle cricothyroidotomy					
4.1.9	Surgical cricothyroidotomy					
5	Respiratory Features:					
5.1	Settings for lung resistance					
5.2	Anterior and posterior auscultation of lung sounds over anatomically correct lung fields					
5.3	Independently programmable lung sounds for all lobes of the lung					
5.4	Spontaneous breathing with options for unilateral and bilateral chest-wall movement					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
5.5	Displays central cyanosis					
6	Respiratory Support Procedures:					
6.1	Use of a wide range of oxygen delivery devices					
6.2	Bag-valve-mask ventilation with chest rise					
6.3	Translaryngeal jet-insufflation					
6.4	Bilateral needle thoracentesis					
6.5	Bilateral formal chest drain insertion					
6.6	Support basic to advanced ventilation management or can integrate a breathing simulator for this purpose					
7	Circulatory Features:					
7.1	Palpable pulses: carotid, brachial, radial, femoral, popliteal, dorsalis pedis					
7.2	Extensive ECG library with interactive programmable features (morphology, rate, artefact, ectopic presence and frequency)					
7.3	Pulses synchronised with ECG and BP (pulse volume/strength)					
7.4	Auscultation of heart sounds over 4 anatomically correct positions with extensive library of heart sound options (normal and pathological)					
7.5	Measurement of BP: manual and NIBP					
8	Circulatory support procedures:					
8.1	IV access with real-time drug and fluid administration capability					
8.2	IO access with appropriate IO access method supporting real-time drug and fluid administration					
8.3	CPR capable, providing feedback on evidence-based CPR metrics: compression-ventilation ratio, depth of compression, chest recoil, hands-off time					
8.4	Clinical evidence of effective CPR: ECG compression artefact and palpable carotid pulses					
8.5	Live defibrillation and synchronised cardioversion with paddles or pads (real or training) at full energy levels					
8.6	Live transcutaneous pacing with delivery of full energy via real or training pads with programmable threshold capture and achievement of electrical and mechanical capturex					
9	Pharmacology:					
9.1	Manual drug-recognition system with programmable drug-responses					
9.2	Comprehensive and programmable drug formulary					
10	Additional required features:					
10.1	Programmable eyelid blinking					
10.2	Alteration of pupil size: right pupil, left pupil or both					
10.3	Patient vocal sounds associated with condition / response such as vomiting sounds, coughing and moaning					
10.4	Capable of communicating as the voice of patient					
11	Software and Operating System requirements:					
11.1	The manikin operating system and virtual patient monitor must be supported by an appropriate current operating software					
12	System Integration requirements:					
12.1	Must be able to integrate real or virtual ultrasound into manikin functionality where ultrasound functions within the manikin operating system					
12.2	Must be able to integrate with a breathing simulator enabling basic to advanced real-time ventilator management of the manikin across all modes of ventilation and PEEP settings while generating real tidal volume					
12.3	Must integrate with a simulation data capturing system enabling data collection for debriefing, record keeping, reporting and research purposes					
13	Consumables,parts supplied with system on delivery:					
13.1	Lubricant for airway procedures					
13.2	Surgical airway skin and membrane					
13.3	Dentures					
13.4	Needle decompression bladders					
13.5	Intraosseous replacement pads					
13.6	Lateral chest-drain pads					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
13.7	Manual defibrillation plates / pads					
13.8	Connectors for pacing / defibrillation cables compatible to the institutions defibrillator					
13.9	Pacing / defibrillation cable that integrates live pacing / defibrillation compatible to the institutions defibrillator					
13.10	Pulse oximeter probe for manikin					
13.11	BP cuff for manikin					
13.12	Manikin clothing					
13.13	Basic tools for assembly					
13.14	Portable battery pack					
13.15	Charge cable					
13.16	Protective bag or case for storage and transport					
14	Product Consumables:					
14.1	Lubricant for airway procedures					
14.2	Replacement neck skins and membrane					
14.3	Replacement bladders for needle decompression					
14.4	Replacement parts for formal chest drain					
14,5	Replacement parts for Intraosseous.					
15	Product Replacement Parts :					
15.1	Simulated SpO2 probe					
15.2	Virtual patient monitor system					
15.3	Simulator operating system					
15.4	Compressor for spontaneous breathing					
15.5	Chest skin					
15.6	Airway system					
15.7	Lung bladders					
15.8	Manikin clothing					
15.9	Battery / power pack					
15.10	Charge cable					
15.11	Replacement skin and veins for IV access					
16	Additional Functions and Consumables					
16.1	Suprapubic catheterisation					



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13. INFANT AIRWAY TRAINING KIT

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "**YES / NO**" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Infant airway task trainer for skills training in basic to advanced airway management procedures						
1	General description:					
1,1	Infant airway task trainer for skills training in basic to advanced airway management procedures					
2	Airway Anatomy and Features:					
2.1	Must demonstrate realistic airway anatomy to the level of the primary bronchi					
3	Must support the following Airway Procedures:					
3,1	Head-tilt-chin lift					
3,2	Jaw thrust					
3,3	Oral and tracheal suctioning					
3,4	Basic airway adjuncts: Oropharyngeal airway (OPA) and Nasopharyngeal airway (NPA)					
3,5	Supraglottic airway devices:Laryngeal mask airway (LMA) and Laryngeal tube airway (LTA)					
3,6	Oro- and nasotracheal intubation					
3,7	Right mainstem bronchus intubation					
3,8	Stomach distension with oesophageal intubation / aggressive Bag-valve-mask ventilation					
3,9	Supports specialised intubation techniques: Bougie / light-wand, video laryngoscopy and fiberoptic assisted intubation					
4	Respiratory Features:					
4.1	Visible lung expansion with correct airway placement and ventilation techniques					
5	Must support the following Respiratory Support Procedures:					
5,1	Bag-valve-mask ventilation with chest rise					
6	Consumables,parts supplied with system on delivery:					
6,1	Airway lubricant					
6.2	Protective bag or case for storage and transport					
7	Product Consumables:					
7,1	Airway lubricant					
8	Product Replacement Parts:					
8,1	Airway assembly					
8,2	Lungs					
8,3	Stomach					
8,4	Face skin					

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14. ADULT SURGICAL AIRWAY TASK TRAINER						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Adult surgical airway task trainer for skills training in needle and surgical cricothyroidotomy						
1	General description:					
1.1	Adult surgical airway task trainer for skills training in needle and surgical cricothyroidotomy					
2	Airway Anatomy and Features:					
2,1	Must demonstrate realistic anatomy of the larynx					
2,2	Must be able to palpate the thyroid notch, thyroid cartilage, cricoid cartilage and cricothyroid membrane					
3	Must support the following Airway Procedures:					
3,1	Needle cricothyroidotomy					
3,2	Surgical cricothyroidotomy					
4	Respiratory Features:					
4,1	Visible lung expansion with correct tube placement					
5	Must support the following Respiratory Support Procedures:					
5,1	Translaryngeal jet insufflation					
5,2	Bag-valve-mask,tube ventilation with chest rise					
6	Consumables ,parts supplied with system on delivery:					
6.1.	Cricothyroid membrane tape					
6,2	Neck skin					
6,3	Protective bag or case for storage and transport					
7	Product Consumables:					
7,1	Cricothyroid membrane tape					
7,2	Neck skins					
8	Product Replacement Parts:					
8,1	Larynx					
8,2	Lungs					



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15. BREATHING SIMULATOR

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

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Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Breathing simulator for basic to advanced ventilatory management training across all modes and types of ventilation as a free standing item.						
1	General description:					
1.1	Breathing simulator for basic to advanced ventilatory management training across all modes and types of ventilation as a free standing item.					
2	FEATURES:					
2.1	A breathing simulator that can connect to any ventilator and elicit the same breathing dynamics as a real patient across a broad spectrum of normal and pathological respiratory conditions and manifestations					
2.2	Presents age-appropriate respiratory dynamics from birth to old age					
2.3	Accurate physiological modelling of respiratory patterns					
2.4	Breathe-to-breathe changes of lung dynamics using purpose-designed software as a stand-alone system or integrated into manikin-based simulation					
3	Lung mechanics features:					
3.1	Must simulate the following lung mechanics:					
3.1.1	Adjustable compliance ranges from 0.5-250 mL/cmH2O					
3.1.2	Adjustable resistance ranges from 8-150 cmH2O/L/s					
3.2.	Generate a tidal volume for spontaneous breathing ventilation support from 2 to 2500 ml					
4	Ventilator parameter interaction:					
4.1	Programmable spontaneous breathing rate from 0-100bpm					
4.2	Programmable spontaneous breathing effort from 0-100cmH2O					
4.3	Programmable Inspiratory : Expiratory (I:E) ratio					
4.4	Demonstrate treatment effects of Positive End Expiratory Pressure (PEEP) across clinically relevant settings including PEEP values > 20cmH20					
5	Case development features for ventilatory management:					
5.1	Support non-invasive ventilation strategies such as Bag-valve Mask Ventilation, Continuous Positive Airway Pressure (CPAP) and Bilevel Positive Airway Pressure (BiPAP)					
5.2	Support all modes of ventilation currently used in clinical practice. Provide detailed list.					
5.3	Pre-programmed settings for respiratory conditions such as asthma, Acute Respiratory Distress Syndrome (ARDS), Chronic Obstructive Pulmonary Disease (COPD) and Interstitial Lung Disease (ILD) with variable levels of severity					
5.4	Programmable user-defined respiratory conditions such as pneumothorax, bronchospasm, pneumonia, cystic fibrosis (as examples)					
5.5	Program and simulate advanced ventilation presentations / management strategies such as patient-ventilator dyssynchrony, weaning and waveform analysis.					
5.6	High flow oxygen therapy					
6	System Integration / compatibility requirements:					
6.1	Can be upgraded as a breathing simulator for premature babies					
6.2	Integrate with a high fidelity, full body adult and an infant manikin					
7	Consumables, parts supplied with system on delivery:					
7.1	Breathing simulator operating system					
7.2	Lung adaptor for full-body, high fidelity manikin(s)					
7.3	Lung circuit adaptor					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
7,4	Lung breathing circuit					
7,5	O-rings and seals					
8	Product Consumables and optional extras:					
8,1	Lung breathing circuit					
8,2	Lung adaptor for full-body, high fidelity manikin and an infant manikin					
8,3	Adaptor module for simulating lung dynamics of premature babies					
9	Product Replacement Parts:					
9,1	Breathing simulator operating system					
9,2	Mechanism for generating tidal volume					
9,3	Resistance mechanism					
9,4	Compliance mechanism					
9,5	Lung adaptor for full-body, high fidelity manikin and an infant manikin					
9,6	Adaptor module for simulating lung dynamics of premature babies					
9,7	Lung circuit adaptor					
9,8	Lung breathing circuit					
9,9	O-rings and seals					
9.10	High Flow Oxygen Consumables					

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16. BRONCHOSCOPY TRAINING SIMULATOR						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Bronchoscopy training system						
1	General description:					
1.1	Bronchoscopy simulator designed to teach advanced bronchoscopy skills in a virtual environment with appropriate hardware and software kit					
2	Bronchoscopy Simulator features:					
2,1	Realistic replica bronchoscope that promotes psychomotor skill development					
2,2	Must support a range of bronchoscopy learning needs from beginner to advanced levels					
2,3	Must provide a didactic and practical platform for learning the basics of bronchoscopy					
2,4	Must establish links between hand position, bronchoscopy simulator and visualised anatomy					
2,5	Must provide teaching from non-anatomical models to a range of complex airway pathology in adults and children					
2,6	Bronchoscopy visuals must provide normal and pathological findings from real cases					
2,7	Must provide a variety of clinical cases from beginner to advanced levels					
3	Bronchoscopy training modules:					
3,1	Tasks for operating a bronchoscope					
3,2	Normal adult anatomy					
3,3	Normal paediatric anatomy					
3,4	Difficult airway scenarios					
4	Additional bronchoscopy training modules (optional):					
4,1	Lower airways					
4,2	Pulmonology Modules					
4,3	List additional available modules					
5	Consumables,parts supplied with system on delivery:					
5,1	Simulator replica bronchoscope					
5,2	Simulator operating system					
5,3	Charge cable					
5,4	Protective bag or case for storage and transport					
5,5	Appropriate compatible hardware					



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17. POINT OF CARE (POC) ULTRASOUND SIMULATOR

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Point-of-care ultrasound training system						
1	General description:					
1.1	Point-of-care ultrasound training system with realistic probe application and ultrasound imagery for learning diagnostic ultrasound with appropriate hardware					
2	Ultrasound Simulator Features:					
2.1	Must support a range of ultrasound learning needs from beginner to advanced levels:					
2.1.1	Must provide a didactic and practical platform for learning the basics of ultrasound including probe use, image detection and interpretation					
2.1.2	Must establish links between probe position, underlying anatomy and ultrasound imagery					
2.2	Must provide point-of-care ultrasound (POCUS) modules for:					
2.2.1	Trauma, critical care, cardiac, vascular access and pregnancy, abdominal					
2.2.2	Must include minimum 2 modules of the choice of the end user					
2.2.3	Ultrasound imagery must provide normal and pathological findings from real cases					
2.2.4	Must provide variation in case difficulty to support learning from beginner to advanced levels					
3	System Integration requirements:					
3.1	Can integrate into simulation using task trainers, standardised patients and full-body, high fidelity manikins					
4	Consumables, Parts Supplied with System on Delivery:					
4.1	Simulator ultrasound probe/s					
4.2	List all the available ultrasound training modules					
4.3	Simulator operating system					
4.4	Charge cable					
4.5	Protective bag or case for storage and transport					
4.6	Appropriate compatible hardware					
4.7	Hardware					
5	Product Replacement Parts:					
5.1	Simulator ultrasound probe/s					
5.2	Simulator operating system					
5.3	Appropriate compatible hardware					
6	Optional Functions:					
6.1	Regional blocks					
6.2	Lung module					
6.3	Paediatric modular					
6.4	Ocular module					
6.5	Gastrointestinal + Hepatobiliary					
6.6	Soft tissue + Skeletal					
6.7	Genitourinary					

 GAUTENG PROVINCE HEALTH REPUBLIC OF SOUTH AFRICA ANNEXURE A: TECHNICAL SPECIFICATION						
GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
18. ADULT HUMAN ANATOMY SKELETON						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Full Body Adult Human Anatomy with bones, muscle insertion points demonstrated on bones and removable organs						
1	General description:					
1.1	Hanging on a movable metal frame, a full Body Adult Human Anatomy Skeleton with muscle insertion points on bones and removable organs					
2	Anatomy Features:					
2.1	Natural skeleton size					
2.2	Realistic organ appearance					
2.3	Showing the muscle origin and insertion on bones					
2.4	Skeleton can be disarticulated					
2.5	Removable calvarium cap					
2.6	Have a breakaway maxilla					
2,7	Paranasal sinuses					
2,8	Detachable mandible					
2.9	Bones of one hand and one foot articulate					
2.10	Hips disarticulate at the ball-and-socket joint					
2.11	Pelvis, one of the hip can swing outward to 45°					
2.12	Removable organs					
2.13	Two-part brain					
2.14	Lobar lung					
2,15	Coronally sectioned heart					
2.16	Small intestine					
2.17	Colon and mesentery					
2.18	Coronally sectioned stomach					
2.19	Pancreas					
2.20	Liver					
2.21	Kidney's (one coronally sectioned)					
2,22	Spleen					
3	Gender and Cultural Features:					
3,1	Applicable male/ female pelvic skeleton parts					
4	Consumables Parts Supplied With System On Delivery:					
4,1	Movable Stand					
4,2	Replacement on all bones parts					
4,3	Replacement on all organ parts					



ANNEXURE A: TECHNICAL SPECIFICATION

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19. ADULT ORTHOPAEDIC SKELETON

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Adult Orthopedic Skeleton						
1	General description:					
1.1	Hanging on a movable metal frame Adult Orthopedic Skeleton					
2	Anatomy Features:					
2.1	Natural Skeleton size					
2.2	Realist Bone appearance					
2.3	Show muscle origins and intersections					
2.4	Articulating bones on hand(s)					
2.5	Articulating bones on feet					
2.6	Skull with removable calvarium cap					
2,7	Breakaway maxilla					
2,8	Para nasal sinuses					
2.9	Detachable mandible					
2.10	Hips disarticulates form ball and socket joints					
2.11	Vertebral column					
2.12	Brachial plexus distribution demonstrated					
2.13	Elbow					
2.14	Hand					
2.15	Wrists					
2.16	Hip					
2.17	Knee					
2.18	Foot					
2.19	Elbow					
2.20	Skull					
3	Other Requirements:					
3.1	Bones have similar consistency , density and radiopaque qualities as natural bone					
4	Gender and Cultural Features:					
4.1	Applicable male/female pelvic skeleton parts					
5	Consumables Parts Supplied With System On Delivery:					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
5.1	Movable Stand					
5.2	Replacement on all bones parts					

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GT/GDH/124/2024:THE SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF BREATH SIMULATOR, HIGH FIDELITY ADULT MANIKIN AND HIGH-FIDELITY ADULT MANIKIN ANAESTHESIA FOR GAUTENG DEPARTMENT OF HEALTH INSTITUTIONS FOR PERIOD OF THREE YEARS (36 MONTHS).						
20. WOUND CARE TRAINING KIT FOR NURSING						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Multi-modular, multi-anatomical part simulation kit for nursing wound care						
1	General description:					
1.1	A multi-modular, multi-anatomical part wound simulation kit					
2	Anatomy and Wound Features:					
2.1	Realistic anatomical appearance with lifelike wounds					
2.2	Material and design of the modules must be suitable for and not limited to cleaning/suturing/bandaging/debridement of:					
2.2.1	Abdominal component/ module including but not limited to surgical incision care					
2.2.2	Colostomy component/ module					
2.2.3	Debridement component/module					
2.2.4	Injection component/ module					
2.2.5	Suturing components/modules					
2.2.6	Thigh component/module					
2.2.7	Amputation components/modules. Applicable for lower and upper limb					
2.2.8	Diabetic/Gangrenous foot component/ module					
2.2.9	Varicose Vein Leg component/module					
2.2.10	Stasis Ulcer component/module					
2.2.11	Pressure points ulcer components/Modules					
2,3	Please state availability of other modules					
3	All the below must assist to perform the following Wound Care Procedures:					
3.1	Abdominal Packing					
3.2	Pensil drain					
3.3	Nylon sutures (insertion, care and removal)					
3.4	Staples (insertion, care and removal)					
3.5	Abdominal Subcutaneous Injection e.g Heparin and Insulin					
3.6	Thigh Packing					
3,7	Wound Irrigation					
3,8	Thigh Debridement					
3,9	Infected Colostomy Stoma					
3,10	Ventro-Gluteal pressure point Ulcer					
3,11	Gluteal pressure point Ulcer					
3,12	Below Knee Amputation Stump					
3,13	Below Elbow Amputation Stump					
3,14	Diabetic Foot with Gangrenous Toes					
3,15	Heel pressure point ulcer					
3,16	Varicose Vein Leg with Stasis Ulcer					
4	Gender and Cultural Features:					
4,1	Applicable cultural sensitive skin tones (light, tan, dark)					
5	Consumables Parts Supplied With System On Delivery:					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
5.1	Wound makeup					
5.2	Replaceable skin					
5.3	Storage bag					

 GAUTENG PROVINCE HEALTH REPUBLIC OF SOUTH AFRICA ANNEXURE A: TECHNICAL SPECIFICATION						
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21. BREAST EXAMINATION TRAINING KIT FOR NURSING						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
i)	Adult breast examination trainer for recognition of breast disorders and abnormalities skills training composed of the following components/modules:					
ii)	Component/module for effective practice of breast examination which includes identification of lump sizes and types					
iii)	Component/module for practice of nursing interventions of a post-mastectomy patient, including assessment, dressing change and drain care					
1	The Kit must include the following Anatomical Parts:					
1.1	Normal anatomy and size of female breasts that realistically simulate the feel of breast tissue					
1.2	Set of interchangeable nodule inserts to represent various breast pathologies					
1.3	A post-operative total mastectomy chest skin pad					
2	The Kit must Simulate the following Breast Examination Findings:					
2.1	Normal breast examination					
2.2	Simulate cystic and solid nodules of various sizes					
2,3	Specify size of nodules availability					
3	Gender and Cultural Features:					
3.1	Applicable cultural sensitive skin tones					
4	Consumables Parts Supplied With System On Delivery:					
4.1	All breast components/modules must be available					
4.2	All the various sizes of nodule inserts specified above must be available					
4.3	Any consumable to extend shelf life of the parts must be included					
4.4	All replaceable parts must be included					
4,5	Carry case					
4.6	Instruction manual for use					

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22. INTRAVENOUS ARM TRAINING KIT FOR NURSING						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Adult Intra-Venous (IV) arm trainer for peripheral intravenous therapy skills training						
1	General description:					
1.1	Adult Intra Venous (IV) arm trainer for peripheral intravenous therapy skills training					
2	Anatomy and Venipuncture Features:					
2.1	Venipuncture possible in multiple locations from the dorsum of the hand to the cubital fossa					
2.2	Peripheral intravenous catheter insertion and removal					
2.3	Accessible veins include median, basilica and cephalic					
2.4	Palpable veins enable site selection and preparation					
2.5	Infusible veins allow peripheral therapy with intravenous bolus or push injection method					
2.6	Replaceable skin					
2.7	Replacable multi-vein system					
3	Must Support the following Venous Puncture and Intravenous Infusion Procedures:					
3,1	Prominent multi-venous network					
3,2	Simulation of infusion technique					
3.3	Practice blood collection exercises with simulated blood					
3.4	Administration of medication by intravenous bolus					
3.5	Simulation of tourniquet position					
3.6	Simulation of collapsed veins					
3.7	Realistic “pop” as needle enters vein					
4	Gender and Cultural Features:					
4,1	Applicable cultural sensitive skin tones					
5	Consumable Parts Supplied with System On Delivery:					
5.1	Adult Arm with all its attachments/accessories					
5.2	Replaceable intravenous pads					
5.3	Replaceable skin					
5.4	Simulated blood					
5.5	Infusion/ Blood bag with tubing connector					
5,6	Clamp and hook					
5,7	Carry case					
6	Consumables:					
6,1	Replaceable intravenous pads					
6,2	Replaceable skin					
6,3	Simulated blood					
6,4	Infusion/ Blood bag with tubing connector					
6,5	Clamp and hook					

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23. POST PARTUM EXAMINATION TRAINING						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Post partum pelvic examination and clinical care trainer kit						
1	General description:					
1.1	Post partum pelvic examination and clinical care trainer kit.The physical principles of the uterine fundus skills assessment should be able to be practiced with this skills trainer including the identification and treatment of normal and abnormal clinical findings					
2	Anatomical Features:					
2.1	Normal post partum female anatomy					
2.2	Realistic landmark of the symphysis pubis					
2.3	Component/module designed for teaching the following interventions for post partum bleeding including:					
2.3.1	Uterine fundus massage					
2.3.2	Distendable urinary bladder (Catherisation and filling should be possible)					
2.4	Demonstrates post-partum blood loss					
2.5	Allows perineal care, including interventions for episiotomy					
2.6	Various uterine sizes available:					
2.6.1	Included but not limited: uterus to imitate a firm, well contracted uterus					
2.6.2	Included but not limited: uterus to imitate a floppy, atonic uterus that has not contracted					
2.7	Flexible hip joint					
3	Must Support the following Pelvic Examination findings:					
3.1	Normal uterine fundus					
3.2	Post-partum blood loss					
3.3	Uterine fundus deviations secondary to bladder distention					
3.4	Female genitalia elongated with swelling to the clitoral area					
3.5	A visible and open vaginal orifice					
3.6	Excessive post-partum bleeding					
3.7	A flapped labium minorus exposing the vaginal canal					
3.8	Bladder distension					
3.9	Second degree midline episiotomy					
3.10	Anal haemorrhoids visible					
4	Gender and Cultural Features:					
4.1	Applicable cultural sensitive skin tones					
5	Consumable Parts Supplied with System On Delivery:					
5.1	Removable skin with umbilicus					
5.2	Interchangeable uteri to imitate the above pathologies					
5.3	Simulated blood					
5.4	Carry case					
5.5	Instruction manual for use					



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24. INTRA-OSSEOUS VASCULAR TRAINER

Note:

1

Bidders are required to indicate compliance/non-compliance with the specification by typing "**YES / NO**" on each line item on column C.

2

In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D.
Comments on the equivalent item must be provided on Column E.

3

Bidder is required provide details of the product offer on column F.

4

Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Intra-osseous vascular access trainer						
1	General description:					
1.1	Intra-osseous vascular access trainer designed to teach emergency vascular access on manikins or bone models					
2	Intra-Osseous Vascular Access Trainer Features:					
2.1	Reusable realistic intra-osseous drill that promotes psychomotor skill development					
2.2	Must provide training needles for adult and paediatric patients					
2.3	Instructional manual to be provided for training use in different scenarios such as adult or paediatric cases and different sites of insertion					
3	Consumables/ Replacement Parts Supplied with System:					
3.1	Replacement batteries					
3.2	Various needle sizes for both adult and paediatrics					
3,3	Protective bag or case for storage and transport					
4	Product Consumables:					
4.1	Replacement adult and paediatric needles					

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25. ADULT SIMULATION MANIKIN TRAINING KIT FOR NURSING						
Note: 1 Bidders are required to indicate compliance/non-compliance with the specification by typing "YES / NO" on each line item on column C. 2 In the case where an equivalent or better option is provided, bidders must type the full description of the equivalent or better item on column D. Comments on the equivalent item must be provided on Column E. 3 Bidder is required provide details of the product offer on column F. 4 Bidder to provide reference to brochure (page number) / technical data sheet / supporting documents on column G.						
Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
Training Kit Description:						
Adult Simulation Manikin for Nursing Skills Training (General Patient Care)						
1	General description:					
1.1	Adult Simulation Manikin for Nursing Skills Training (General Patient Care)					
2	Anatomy and Features:					
2.1	Full-size Adult lightweight manikin					
2.2	Simple conversion to either female/male					
2.3	Realistic Human Appearance					
2.4	Head with anatomical landmarks					
2.5	Mouth open and close for mouth hygiene					
2.6	Soft, realistic face skin, hands, feet, fingers, and toes					
2.7	Articulating head, jaw, elbows, wrists, ankles, and knees					
2.8	Trachea (allows for tracheal care and suctioning)					
2.9	Esophagus					
2.10	Lungs (inflatable)					
2.11	Stomach (inflatable)					
2.12	Nasogastric tube and orogastric insertion					
2.13	Gastric lavage and enteral feeding					
2.14	Articulated upper and lower limb					
2.15	Allows peripheral Intravenous therapy					
2.16	Venipuncture possible (antecubital fossa or dorsum of hand)					
2.17	Intramuscular injection sites in arm, thighs, and buttocks					
2.18	Interchangeable genitalia					
2.19	Catheterization exercises					
2.20	Fillable urinary bladder					
2.21	Fillable rectal cavity/bladder with enema insertion capability					
2.22	Abdominal plate with interchangeable stoma locations depicting colostomy, ileostomy and suprapubic cystostomy					
2.23	Wound Sites					
2.24	Tracheostomy Site, Tracheostomy care and tracheal suctioning					
2.25	Breast examination capability					
3	MUST SUPPORT THE FOLLOWING CLINICAL NURSING PROCEDURES AND FEATURES:					
3.1	Patient Care:					
3.1.1	Irrigation of the eye and ear					
3.1.2	Application/instillation of medications in the eye, ear and nose including nasal packing					
3.1.3	Mouth and denture care procedures					
3.1.4	Insertion and suctioning of oropharyngeal and nasopharyngeal airways					
3.1.5	Insertion, securing, and care of endotracheal tubes					
3.1.6	Tracheostomy care and tracheal suctioning					
3.1.7	Various oxygen delivery procedures					
3.1.8	Gastric lavage and enteral feeding					
3.1.9	Subclavian central venous catheter with subcutaneous port access for nursing care					
3.1.10	Manually generated carotid pulse					
3.1.11	Injection sites include deltoid, bilateral thigh, dorsal gluteal and ventral gluteal					

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
3.1.12	Full range of motion of all extremities for realistic patient handling					
3.1.13	Colostomy nursing care					
3.1.14	Wound care and bandaging					

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3.2	Interchangeable Male and Female Genitalia with the following features:					
3.2.1	Can be attached to urinary and colon reservoirs via connector valves					
3.2.2	Realistic insertion of urinary catheter					
3.2.3	Female genitalia with vaginal opening for nursing care and procedures					
3.2.4	Will retain indwelling or straight catheter					
3.2.5	Anal valves or equivalent to simulate the internal anal sphincter					
3.2.6	Enema procedures may be performed using fluid for realistic return					
3.3	Articulating IV Training Arm:					
3.3.1	Allows peripheral intravenous therapy and site care					
3.3.2	Venipuncture is possible in the antecubital fossa and dorsum of the hand					
3.3.3	Must include accessible median, basilic and cephalic veins					
3.3.4	Replaceable skin and infusible vein system					
4	Gender and Cultural Features:					
4.1	Applicable cultural sensitive skin tones (Light, Tan, and Brown)					
5	Consumable Parts Supplied with System On Delivery:					
5.1	Replacement on anatomical parts and structures					
5.2	Replaceable skin and infusible vein system					
5.3	Female Multi-Venous intravenous training arm					
5.4	Female Blood Pressure Training Arm					
5.5	Stomach Reservoir Bag					
5.6	Bladder Reservoir Bag					
5.7	Colon/Enema Reservoir Bag					
5.8	Manikin Lubricant					
5.9	Assembly Tool Kit					
5.10	Storage case/carry bag					

26. HF ADULT FEMALE SIMULATION

Item no.	Technical Specification	Comply (Yes/No)	Provide Equivalent/ Better (if applicable)	Comments	Details of Product Offer (Provide your answers in this Column. You are advised to be straight to the point)	Reference to Brochure / Technical Data Sheet (verification) / Supporting Document
3.8.2	Various oxygen delivery methods with visible chest rise including nasal cannula, masks, trach collar/mask, Noninvasive ventilation device					
3.8.3	Bag-mask ventilation					
3.8.4	Suctioning (Oral & Nasopharyngeal)					
3.8.5	Detachable neck skin with underlying tracheostomy tube for insertion site					
3.8.6	Trachea care tracheal suctioning with fluid					
3.8.7	Spontaneous breathing with chest rise					
3.9	Resuscitation Features:					
3.9.1	Cardiopulmonary Resuscitation with capability of chest compressions					
3.9.2	Oral/Nasal Intubation					
3.9.3	Supraglottic Airway Insertion					
3.9.4	Bag, Mask, Valve, Ventilation					
3.9.5	Head tilt/Chin lift jaw thrust maneuver					
3.9.6	Electrocardiogram rhythm simulation capabilities					
3.9.7	Defibrillation, cardioversion and fixed mode pacing					
3.10	Fluid Administration Features:					
3.10.1	Invisible port at the upper thorax for pre-placement of central line catheter for site care, dressing change, flushing lines, and continuous or intermittent infusion					
3.10.2	Internal central line reservoir with fluid capacity, with option to use an external reservoir bag for large volume infusions					
3.10.3	Optional multi-venous IV training arm with capability of IV cannulation placement, fluid administration and venipuncture					
4	Additional Requirements:					
	Appropriate hardware and software to support the following simulation functions:					
4.1	Communication:					
4.1.1	Pre-recorded vocal sounds, including but not limited to:					
4.1.1.1	Cough					
4.1.1.2	Moan					
4.1.1.3	Vomit					
4.1.1.4	Shortness of breath					
4.1.1.5	Breathing (continuous sound)					
4.1.1.6	Scream, "Yes", "No"					
4.2	Eyes:					
4.2.1	Blinking eyes with adjustable blink rate					
4.2.2	Ability to open, close or partially close					
4.2.3	Interchangeable pupils(normal, dilated, constricted) or automatic light reactive pupils					
4.3	Breathing/ Respirations:					
4.3.1	Spontaneous breathing synchronized with selected breath rate (0-60 bpm) Bilateral chest rise					
4.4	Pulse:					
4.4.1.	Palpable pulse synchronized with electrocardiograph					
4.4.2	Adjustable in strength (weak, normal and strong)					
4.4.3	Bilateral carotid pulses (same pulse left and right)					
4.4.4	Brachial and radial pulses in the right and left arm:					
4.4.4.1	Optional with right and left independent control					
4.4.5	Bilateral femoral pulses (same pulse left and right)					
4.4.6	Bilateral pedal pulses:					
4.4.6.1	Optional with right and left independent control					
4.5	Non-Invasive Blood Pressure:					
4.5.1	Bilateral measurement of non-invasive blood pressure (auscultated or palpated)					
4.5.2	Korotkoff sounds synchronized with programmable electrocardiograph					
4.5.3	Korotkoff volume control available in both arms					
4.5.4	Pressure range of 0-300mmHg					
4.6	Sound Auscultation:					
4.6.1	Heart, lung and bowel sounds may be auscultated with real stethoscope					
4.7	Lung Sounds:					
4.7.1	Lung sounds synchronized with the set breathing rate (0-60 bpm) and chest rise on the manikin:					
4.7.1.1	Normal					
4.7.1.2	Crackles					
4.7.1.3	Stridor					
4.7.1.4	Wheezes					
4.7.1.5	No Sound					
4.7.2	Lung sound and sound volume may be set individually for each lung – left and right, upper and lower					
4.7.3	Anterior and posterior lung sound auscultation sites					
4.8	Heart Sounds:					
4.8.1	Heart sounds synchronized with the electrocardiograph					
4.8.2	Normal with various abnormal heart sounds					
4.8.3	Non-perfusing rhythms will not generate heart sounds					
4.9	Bowel Sounds:					
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4.9.2.1	Fetal heart rate range from 100bpm – 200bpm					
4.10	Software Features to Populate in all High Fidelity Manikins:					
4.10.1	Software allowing for creation of clinical scenarios manually or preprogramed					
4.10.2	Upload clinical scenarios from external sources					
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5.	Software and Operating System requirements:					
5.1	The manikin operating system and virtual patient monitor must be supported by an appropriate current operating software program					
6	Gender and Cultural Features:					
6.1	Applicable cultural sensitive skin tones (Light, Tan, and Brown)					
7.	Consumable Parts Supplied with System On Delivery:					
7.1	Replacement on anatomical parts and structures					
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7.3	Stomach Reservoir Bag					
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7.7	Manikin Lubricant					
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7.9	Software					
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7.11	Appropriate current operating hardware					
7.12	Cables and connections					
7.13	Storage case/carry bag					



Provincial Supply Chain Management

Financial Statements

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Submission of Financial Statements

The latest financial statements for the last two years are required (except if it is a new or a dormant entity)

- a) Financial statements must be signed by the auditor (in the case of companies) or the accounting officer (in the case of close corporations) the owner (in case of sole proprietors). Signatures must be on the accounting officer's / auditors report on the auditor's /accounting officer's letterhead.
- b) Financial statements must be signed by the member/s (in the case of close corporations) or by the director/s (in the case of companies.)
- c) In bids where consortia/joint ventures/sub-contractors and partnerships are involved, all bidders must submit their financial statements.
- d) If it is a new or dormant entity an opening set of financial statements must be submitted. A letter from the auditor (in the case of companies) or the accounting officer (in the case of close corporations) stating that the entity has not yet traded must be submitted.
- e) In cases where an entity has operated for a period less than a year the Management Accounts Report for the period in operation must be submitted signed accordingly as stated in paragraph (a) and (b) of this document.
- f) In cases where the entity has operated for a period more than a year but less that two years, then the financial statement for the first year of operation signed accordingly as per paragraph (a) and (b) of this document must be submitted.

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.

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General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 “Closing time” means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 “Contract” means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 “Contract price” means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 “Corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 “Country of origin” means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 “Day” means calendar day.
 - 1.8 “Delivery” means delivery in compliance of the conditions of the contract or order.
 - 1.9 “Delivery ex stock” means immediate delivery directly from stock actually on hand.
 - 1.10 “Delivery into consignees store or to his site” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.

- 1.25 “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.
- 2. Application**
- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.
- 3. General**
- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za
- 4. Standards**
- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.
- 5. Use of contract documents and information; inspection.**
- 5.1 The supplier shall not, without the purchaser’s prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser’s prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier’s performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier’s records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.
- 6. Patent rights**
- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.
- 7. Performance**
- 7.1 Within thirty (30) days of receipt of the notification of contract award,

security

the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
 - (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) a cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the

cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

- 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties,

- provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser

may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

- 17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract amendments

- 18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

- 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily

available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the

envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:

- (i) the name and address of the supplier and / or person restricted by the purchaser;
- (ii) the date of commencement of the restriction
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.
- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier.

28. Limitation of liability

- 28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
- 29. Governing language** 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
- 30. Applicable law** 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.
- 31. Notices** 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
- 32. Taxes and duties** 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.
- 33. National Industrial Participation Programme (NIP)** 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.
- 34. Prohibition of Restrictive practices** 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

Js General Conditions of Contract (revised July 2010)