

PART A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF HEALTH

BID NUMBER:	HEDP007/25/26	CLOSING DATE:	21/07/ 2026	CLOSING TIME:	11:00
DESCRIPTION	SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF MEDICAL EQUIPMENT (BI-PLANE IMAGING SYSTEM FOR AN INTERVENTIONAL CARDIOLOGY / CATHETERIZATION LABORATORY) IN THE LIMPOPO DEPARTMENT OF HEALTH FOR A PERIOD OF THIRTY-SIX (36) MONTHS. (THREE YEARS).				

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT

DEPARTMENT OF HEALTH, 18 COLLEGE STREET, POLOKWANE, LIMPOPO PROVINCE

THE BID BOX IS GENERALLY OPEN 24 HOURS, 7 DAYS A WEEK.

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO

CONTACT PERSON	Mr Sekome T / Ms Motene N.M
TELEPHONE NUMBER	(083) 265 8365 (063) 692 9368 / (015) 293 6350
E-MAIL ADDRESS	Taelo.Sekomeo@dhsd.limpopo.gov.za Ntlama.Maphahlele@dhsd.limpopo.gov.za

TECHNICAL ENQUIRIES MAY BE DIRECTED TO:

CONTACT PERSON	Dr. Hadzhi R. / Ms. Matjila MT
TELEPHONE NUMBER	084 438 3884 / 083 676 4752
E-MAIL ADDRESS	Mancha.Matjila@dhsd.limpopo.gov.za Rendani.Hadzhi@dhsd.limpopo.gov.za

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
CELLPHONE 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	Yes <input type="checkbox"/> No <input type="checkbox"/> [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?	Yes <input type="checkbox"/> No <input type="checkbox"/> [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	YES <input type="checkbox"/> NO <input type="checkbox"/>
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	YES <input type="checkbox"/> NO <input type="checkbox"/>
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	YES <input type="checkbox"/> NO <input type="checkbox"/>
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	YES <input type="checkbox"/> NO <input type="checkbox"/>
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	YES <input type="checkbox"/> NO <input type="checkbox"/>

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.

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:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:.....

**PRICING SCHEDULE – NON-FIRM PRICES
(SERVICES)**

NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.

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

Name of Bidder.....	Bid number.....
Closing Time 11:00.....	Closing date.....

OFFER TO BE VALID FOR **365** DAYS FROM THE CLOSING DATE OF BID.

ITEM NO	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(APPLICABLE TAXES INCLUDED)
			R

- Required by:
- At:
- Brand and model:
- Country of origin:
- Does the offer comply with the specification(s)? ***YES/NO**
- If not to specification, indicate deviation(s):
- Period required for delivery:.....
- Delivery: ***Firm/not firm**

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

*Delete if not applicable

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES

IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

Where:

- Pa = The new escalated price to be calculated.
- = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**
- = Each factor of the bid price e.g. labour, transport, clothing, footwear, etc.
- The total of the various factors D1, D2...etc. must add up to 100%.
- = Index figure obtained from new index (depends on the number of factors used).
- R1o, R2o = Index figure at time of bidding.
- = 15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....
 Index..... Dated..... Index..... Dated..... Index..... Dated.....

FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	PERCENTAGE OF BID PRICE

PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

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 Bidders, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

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

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

Full Name	Identity Number	Name of State institution

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

If so, furnish particulars:

.....

¹the 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.

3. DECLARATION

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

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

.....
Signature

.....
Date

.....
Position Name of bidder

.....
Date

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.

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

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

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

1. GENERAL CONDITIONS

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

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

1.2. To be completed by the organ of state

- a) The applicable preference point system for this tender is the **80/20** preference point system.
- b) The 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

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

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

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

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

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

2. DEFINITIONS

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

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

80/20 or 90/10

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

- a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Enterprise Located in Limpopo Province	5/20	
SMMEs	10/20	
Woman	5/20	

REQUIREMENTS FOR ATTAINING SPECIFIC GOALS

To be eligible to claim preference points in terms of Preferential Procurement Policy 2022, bidders must submit or provide proof of the following documents:

- a) **Women:** Bidders must submit the latest full Central Supplier Database (CSD report).
- b) **Enterprise Located in Limpopo:** Bidders must attach proof of residence of where the enterprise is allocated.
- c) **SMMEs:** Bidders must attach a valid original sworn affidavit.

Bidders are advised that the allocation of the points for women, people living with disability and youth should be based on the percentage of the equity ownership in the company.

DECLARATION WITH REGARD TO COMPANY/FIRM

- 4.3. Name of company/firm.....
- 4.4. Company registration number:
- 4.5. TYPE OF COMPANY/ FIRM

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

[Tick applicable box]

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

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

**GOVERNMENT PROCUREMENT
GENERAL CONDITIONS OF CONTRACT**

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.

TABLE OF CLAUSES

1. Definitions
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General Conditions of Contract

1. Definitions

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 subsidised 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 recognised 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.

	<p>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.</p> <p>1.18. “Manufacture” means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.</p> <p>1.19. “Order” means an official written order issued for the supply of goods or works or the rendering of a service.</p> <p>1.20. “Project site,” where applicable, means the place indicated in bidding documents.</p> <p>1.21. “Purchaser” means the organization purchasing the goods.</p> <p>1.22. “Republic” means the Republic of South Africa.</p> <p>1.23. “SCC” means the Special Conditions of Contract.</p> <p>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.</p> <p>1.25. “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.</p>
<p>2. Application</p>	<p>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.</p> <p>2.2. Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.</p> <p>2.3. Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.</p>
<p>3. General</p>	<p>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.</p> <p>3.2. With certain exceptions, invitations to bid are only published in the Government Bid Bulletin. The Government Bid Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za.</p>
<p>4. Standards</p>	<p>4.1. The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.</p>
<p>5. Use of contract documents and information; inspection.</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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 Security	<p>7.1. Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.</p> <p>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.</p> <p>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:</p> <p>(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</p> <p>(b) a cashier's or certified cheque</p> <p>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.</p>
8. Inspections, tests and analyses	<p>8.1. All pre-bidding testing will be for the account of the bidder.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>8.7. Any contract supplies may on or after delivery be inspected, tested or analysed 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.</p> <p>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.</p>

<p>9. Packing</p>	<p>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.</p> <p>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.</p>
<p>10. Delivery and documents</p>	<p>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.</p> <p>10.2. Documents to be submitted by the supplier are specified in SCC.</p>
<p>11. Insurance</p>	<p>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.</p>
<p>12. Transportation</p>	<p>12.1. Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.</p>
<p>13. Incidental Services</p>	<p>13.1. The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:</p> <ul style="list-style-type: none"> (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. <p>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.</p>
<p>14. Spare parts</p>	<p>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:</p> <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> (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	<p>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.</p> <p>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.</p> <p>15.3. The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.</p> <p>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.</p> <p>15.5. 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.</p>
16. Payment	<p>16.1. The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.</p> <p>16.2. The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.</p> <p>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.</p> <p>16.4. Payment will be made in Rand unless otherwise stipulated in SCC.</p>
17. Prices	<p>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 authorised in SCC or in the purchaser's request for bid validity extension, as the case may be.</p>
18. Contract Amendments	<p>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.</p>
19. Assignment	<p>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.</p>
20. Subcontracts	<p>20.1. The supplier shall notify the purchaser in writing of all subcontracts awarded under these 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.</p>

<p>21. Delays in the supplier's performance</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>21.6. Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling 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</p>
<p>22. Penalties</p>	<p>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.</p>

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 to impose a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than 14 days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 days the purchaser may regard the intended penalty as not objected against and 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, should be applicable to any other enterprise or nay partner, manager, director or other person who wholly or party exercises or exercised or may exercise control over the enterprise of the first mentioned person, and with which enterprise or person the first mention person, is or was in the opinion of the AO/AA actively associated.
- 23.6. If a restriction is imposed, the purchaser must, within 5 days of such imposition 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 person prohibited from doing business with the public sector.
- 23.7. If a court of law convicts a person on an offence as contemplated in section 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 Bid 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 5 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’s web-site.

<p>24. Anti-dumping and countervailing duties and rights</p>	<p>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.</p>
<p>25. Force Majeure</p>	<p>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.</p> <p>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.</p>
<p>26. Termination for insolvency</p>	<p>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.</p>
<p>27. Settlement of Disputes</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>27.4. Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.</p> <p>27.5. Notwithstanding any reference to mediation and/or court proceedings herein,</p> <ul style="list-style-type: none"> 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	<p>28.1. Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6;</p> <p>(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</p> <p>(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</p>
29. Governing Language	<p>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.</p>
30. Applicable Law	<p>30.1. The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.</p>
31. Notices	<p>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.</p> <p>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.</p>
32. Taxes and Duties	<p>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.</p> <p>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.</p> <p>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.</p>
33. National Industrial Participation Programme (NIP)	<p>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.</p>
34. Prohibition of Restrictive practices	<p>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).</p> <p>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.</p> <p>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.</p>

General Conditions of Contract

DECLARATION OF COMPLIANCE GENERAL CONDITIONS OF CONTRACT

The bidder declares to accept all the Conditions as outlined in the scope of work as specified above by indicating with an "X" in the "ACCEPT ALL" column.	ACCEPT ALL	DO NOT ACCEPT ALL

NOTE: FAILURE TO ACCEPT ALL THE SCOPE OF WORK AS SPECIFIED IN THE ABOVE WILL RESULT IN DISQUALIFICATION OF YOUR BID.

Signature.....Name (in print).....

Date.....



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF HEALTH

TERMS OF REFERENCE

HEDP007/25/26 – SUPPLY, DELIVERY, COMMISSIONING AND MAINTENANCE OF MEDICAL EQUIPMENT (BI-PLANE IMAGING SYSTEM FOR AN INTERVENTIONAL CARDIOLOGY / CATHETERIZATION LABORATORY) IN THE LIMPOPO DEPARTMENT OF HEALTH FOR A PERIOD OF THIRTY-SIX (36) MONTHS. (THREE YEARS).

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1. PURPOSE

- 1.1. The purpose of this request for bid (RFB) is to invite companies with solid track experience in the supply, delivery, commissioning and maintenance of medical equipment (bi-plane imaging system for an interventional cardiology / catheterization laboratory) within the health sector.

2. BACKGROUND

- 2.1. The department of health offers various specialized clinical services that require advanced technology in order to ensure effective and efficient medical diagnosis and reporting.

3. SCOPE OF WORK

- 3.1 The successful bidder/s is/are expected to supply, deliver, commission and maintain the bi-plane imaging system for an interventional cardiology / catheterization laboratory to the Limpopo department of health for a period of 36 months.
- 3.2. The supply and delivery will be undertaken through outright purchase during the period of the contract.
- 3.3 The potential bidder will be expected to maintain the unit during the warranty period without any cost to the department.
- 3.4. The successful bidder will enter into a comprehensive maintenance arrangement to sustain the operational efficiency of the unit which will come into effect after the expiry of the warranty period.
- 3.5. The successful bidder shall guarantee the availability of parts and accessories for the duration of the maintenance period.
- 3.6 The bidder will be expected to undertake ceiling and floor reinforcement.

4. KEY ASPECTS OF THE BID PROPOSAL

Bidders must take note of the following fundamental aspects before submission of their bid proposals:

- 4.1 The successful bidder will be bound by Government Legislative Framework i.e. the General Conditions of Contract and the Special Conditions of Contract (SCC), which will form part of the signed contract. However, LDoH reserves the right to include or waive any condition in the signed contract.

- 4.2 The signed contract, which is inclusive of the GCC, SCC and Technical Specification shall be signed within seven (7) days after the acceptance of award of the bid. The department shall enter into an SLA which is regarded as a performance agreement which will be signed within 30 days after signing of the contract with the Accounting Officer or his/her delegate.
- 4.3 LDoH reserves the right to –
 - 4.3.1 Negotiate the SCC, or
 - 4.3.2 Automatically disqualify a bidder for not accepting these conditions
- 4.4 Bidders must submit their bids on the stipulated closing date and time. Late bids will not be accepted.
- 4.5 Each bidder must attach all applicable documents in support of its bid in accordance with the requirements set out in this bid as well as any other relevant materials, photographs and/or attachments.
- 4.6 The department reserves the right to verify any information supplied by the bidder and should the information be found to be false or incorrect, the department will disqualify the bid and may further exercise any of the remedies available to it.
- 4.7 Each bid, once submitted, constitutes a binding and irrevocable offer to provide goods and services on the terms set out in the bid, which offer cannot be amended after its date of submission except for arithmetic errors.
- 4.8 The department reserves the right to invite qualified bidder/s for a formal presentation during the evaluation. A bidder should be prepared to do so at a venue that is convenient to the LDoH. All costs involved in the presentation or demonstration shall be borne by the bidder.
- 4.9 The department may, for any reason and at any time during the selection process, request any bidder to supply further information and/or documentation.
- 4.10 Attachment of Central Supplier Database Registration Report (CSD). **NB: bidders must attach a FULL CSD REGISTRATION REPORT and not a summary report.** And for Joint Venture all parties of the consortium /joint venture must submit their individual documents referred above proof of CSD registration.
5. **BID AWARD AND CONTRACT CONDITIONS.**
 - 5.1 Bidders must submit their bid in line with the bid specification. Failure to comply shall invalidate the bid.
 - 5.2 Bidders shall be notified about the decision of the Department by means of publication in the Provincial Tender Bulletin, Departmental website and E-tender portal.

6. THE BID ALLOCATION STRATEGY

- 6.1. The department reserves the right to award the bid to one or more service providers, wholly or in part or not to award.
- 6.2. The bid shall be allocated based on scoring ranking of price and specific goals.
- 6.3. The price of the overall winning bidder shall be used for the purpose of allocating and passing the bid; the strategy to allocate and pass the bid shall be as follows or based on 6.3.1. The Price and Specific Goals (PPR 2022) points position / ranking from highest to the lowest points scored.
 - 6.3.2 In the event a bidder is awarded and rejects the awards, the award shall be taken back to the winning bidder after exhausting the allocation of all preferred bidders.

7. RISK MANAGEMENT ON PRICING AND AWARDING

- 7.1. The department shall conduct market research to determine if preferred bidder did not underquote or overcharge their offer.
- 7.2. Overcharged prices shall be subjected to price negotiation or a price offer by the department (as a process to kick-start the negotiation).
- 7.3. Underquoted prices shall be subjected to price justification
- 7.4. All prices charged must be inclusive of business overheads, applicable taxes, and VAT. **NB: Successful bidders who are not registered for VAT at the time of bidding must register as required by law within 30 days after award.**

8. VALIDITY PERIOD OF THE BID

- 8.1. Bidders to take note that the bid shall be valid for the period of 365 days and the validity period may be extended if necessary.
- 8.2. Bidders to note that when the department issues and extension of validity period notice, bidders who do not respond by the date of bid closure the department will consider the non-response as an acceptance of the extension of the validity period.

9. RATE OF EXCHANGE (ROE) CLAIMS

- 9.1. Should the price be subjected to Rate of Exchange (ROE), claims for ROE variation will be considered. Claims for the rate of exchange variation will only be considered on receipt of requests from suppliers. All relevant documents must accompany the claims. Claims for ROE shall be applicable to suppliers that have, in their Bid documents, indicated the ROE at the time of bidding.
- 9.2. Bidders must complete SBD 3.2 on the applicable portion of prices subject to rate of exchange variations.
- 9.3. At the time when the ROE is favourable the department will pay the bidder at current ROE the delivery takes place.

10. DECLARATION OF COMPLIANCE TO SCC

<p>THE BIDDER DECLARES TO ACCEPT ALL THE CONDITIONS AS OUTLINED IN THE SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED ABOVE BY INDICATING WITH AN “X” IN THE “ACCEPT ALL” COLUMN.</p>	<p>ACCEPT ALL</p>	<p>DO NOT ACCEPT ALL</p>
<p>NOTE: FAILURE TO ACCEPT ALL THE SCC AS SPECIFIED IN THE ABOVE MAY RESULT IN DISQUALIFICATION OF YOUR BID.</p> <p>Signature.....Name (in print)</p> <p>Date.....</p>		

11. EVALUATION CRITERIA

The bid shall be evaluated in four **(4)** phases as follows

- 11.1. Mandatory requirements
- 11.2. Administrative compliance
- 11.3. Technical specification compliance
- 11.4. Price and specific goals

11.1. PHASE 1: MANDATORY REQUIREMENTS

11.1.1 The bidders' eligibility will be tested against the following mandatory requirements failure which such will be disqualified and not be evaluated further:

TABLE 1: MANDATORY BIDDING REQUIREMENTS

FOL	MANDATORY BIDDING REQUIREMENTS	BIDDER'S RESPONSE (Submitted / Not Submitted)
1	Submission of a copy of valid license and registration from South African Health Products Regulatory (SAHPRA) as a manufacturer, distributor or wholesaler.	
2	A valid copy of license from SAHPRA to import the model of the device to be supplied under the bidder's name Or letter of authorization from the license holder (together with all applicable licenses and registrations certificates/licenses of holder) in the case where the license is not in the name of bidder.	

11.2. PHASE 2: ADMINISTRATIVE COMPLIANCE

11.2.1. The bidder shall respond with “Comply”, “Not Comply” or “Not Applicable” in the apportioned spaces. The “Not Applicable” answer shall only be considered where the response field has the wording “If Applicable”.

11.2.2. Bidders may be disqualified for failure to comply with the above guidelines when responding to administrative bidding requirements or failure to attach or complete and/or sign any of the designated areas of the documents mentioned below. Bidders may be given an opportunity to remedy administrative errors or omissions that are not substantive in nature (which does not advance the bidder or provide an advantage to the bidder). This shall be on the discretion of the evaluation committee.

TABLE 2.: ADMINISTRATIVE BIDDING REQUIREMENTS

FOL	ADMINISTRATIVE BIDDING REQUIREMENTS	BIDDER'S RESPONSE (Comply/ Not Comply / Not Applicable)
11.2.1.1	Submission of the following standard bidding documents (fully completed and signed)	
	I. SBD 1: Invitation to Bid	
	II. SBD 3.2: Non-firm price	
	III. SBD 4: Bidders disclosure NB. All companies that are under the name of the director/shareholder or member or trustees as per CSD Report must be declared, irrespective of whether they(companies) are used for bidding or not. Including Joint Venture/ Consortium/Partnership	
11.2.1.2	Proof of authority in terms of SBD.1 to sign the documents on behalf of the bidder	
11.2.1.3	In case of Consortium or Joint Venture or Partnership (IF APPLICABLE) the following are required:	

FOL	ADMINISTRATIVE BIDDING REQUIREMENTS	BIDDER'S RESPONSE (Comply/ Not Comply / Not Applicable)
	I. ✓ Signed agreement between involved parties indicating the lead member;	
	II. ✓ Consortium or Joint venture resolution authorizing a particular person to sign the bid documents on behalf of the consortium or joint venture	
11.2.1.5	Bid Declarations: The following declarations must be completed and signed (failure may render the bid invalid) <ul style="list-style-type: none"> ✓ <u>General Conditions of Contract (GCC)</u> ✓ <u>Special Conditions of Contract (SCC)</u> 	
11.2.1.6	Submission of the manufacturer brochure of the unit to be supplied. The brochure must be written in English and supplied in colour version	

11.3. PHASE 3 (THREE): TECHNICAL SPECIFICATION REQUIREMENTS

General Requirements of the Specifications (refer to Annexure B)

All the potential bidders must take the following into account: (failure to demonstrate the consideration of these requirements may result in disqualification of the bid):

11.3.1 Warranty

- a) Bidders must supply a minimum of twenty-four (24) months' warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, amongst others, labour, traveling and accommodation.
- b) The successful bidder will be expected to provide comprehensive corrective and preventative maintenance during the warranty period.

11.3.2. Maintenance and service

- a) The bidder should have an established service facility, with qualified and product trained technicians.
- b) Successful bidder should be able to attend to the equipment or to reach the area of equipment within 24 hours of call by the department.

- c) The cost of patient care incurred during equipment downtime of more than 24 hours will be billed on the account of the successful bidder.
- d) The successful bidder should enter into a ninety-six (96) months comprehensive maintenance contract effective after the expiry of the twenty-four (24) month warranty period.

11.3.3. Training

- a) The successful bidder will be responsible for training of the clinicians in the operation of the unit.
- b) Supply curriculum for on-site training and assessment of staff after training.
- c) Successful bidder will be expected to provide follow up training when required at no additional cost.
- d) Comprehensive user / operation manuals to be supplied.

11.3.4. General

- a) The department reserves the right to inspect the bidders' product on site regarding quality, performance, workmanship, etc. Before a final decision is made.
- b) The successful bidder will be responsible for software updates at no additional cost during the maintenance period.
- c) The delivery of the equipment should be made within a period of twelve (12) weeks after the receipt of the purchase order.

11.3.1.5 COMPREHENSIVE PRICING SCHEDULE

EQUIPMENT DESCRIPTION: ANGIOSUITE		BID PRICE (R)
Unit price	Bi-plane imaging system for an interventional cardiology / catheterization laboratory including accessories listed under Annexure A (N)	R
Maintenance	Year 1	Warranty
Maintenance	Year 2	Warranty
Maintenance	Year 3	R
Maintenance	Year 4	R
Maintenance	Year 5	R
Maintenance	Year 6	R
Maintenance	Year 7	R
Maintenance	Year 8	R
Maintenance	Year 9	R
Maintenance	Year 10	R
GRAND TOTAL		R

11.3.1.6 ACCESSORIES

Bidder must provide all required accessories that are necessary to make the machine functional at no additional cost.

11.4. PHASE 4 (FOUR): EVALUATION ON PRICE AND SPECIFIC GOALS

11.4.1. Price evaluation requirements

- a. This bid shall be evaluated in terms of **80/20** preference points system.
- b. To be eligible to claim preference points, bidders must complete **SBD 6.1**
- c. Preference points claim form in terms of the Preferential Procurement regulations 2022.

11.4.2 SPECIFIC GOALS ALLOCATION CRITERIA

Points for specific goals shall be awarded to a bidder in accordance with the table below:

SPECIFIC GOALS	PREFERENTIAL POINTS
	80/20
Enterprise located in Limpopo Province	5/20
SMMEs	10/20
Woman	5/20

11.4.3. REQUIREMENTS FOR ATTAINING SPECIFIC GOALS

To be eligible to claim preference points in terms of Preferential Procurement Policy 2022, bidders must submit or provide proof of the following documents:

11.4.3.1 Women: Bidders must submit the latest full Central Supplier Database (CSD report).

11.4.3.2 Enterprise Located in Limpopo: Bidders must attach proof of residence of where the enterprise is allocated .

11.4.3.3 SMMEs: Bidders must attach a valid original sworn affidavit.

NB: Bidders are advised that the allocation of the points for women should be based on the percentage of the equity ownership in the company.

12. COMPULSORY SITE VISIT

There will be **Compulsory** site visit for this bid.

- Date: 26 June 2026
- Time: 09H30
- Venue: Pietersburg Hospital: X-Ray Department

NB: Failure to attend site inspection on the date set by the department shall disqualify the bidder/s.

13. ENQUIRIES

All enquiries regarding the bid may be directed to the following:

Physical Address	Technical Enquiries	Bidding Process
Department of Health Fidel Castro Ruz House 18 College Street Polokwane 0699	Dr. Hadzhi R. 015 287 5000 Rendani.Hadzhi@dhsd.limpopo.gov.za Ms. Matjila MT 015 287 5144 Mancha.Matjila@dhsd.limpopo.gov.za	Ms Motene NM (015) 293 6350 Ntlama.Mphahlele@dhsd.limpopo.gov.za Mr T Sekome (015) 293 6352 Taelo.Sekome@dhsd.limpopo.gov.za

14. ANNEXURE A: DETAILED TECHNICAL SPECIFICATIONS

**BI-PLANE IMAGING SYSTEM FOR AN INTERVENTIONAL CARDIOLOGY / CATHETERIZATION
LABORATORY**

NO.	DESCRIPTION	SPECIFY	BIDDER'S RESPONSE
A	MANUFACTURER/DISTRIBUTOR/WHOLESALE, ETC.		
B	UNIT MODEL AND YEAR OF MANUFACTURE		
C	BRAND OF THE UNIT TO BE SUPPLIED		
D	COUNTRY OF ORIGIN		

NO.	DESCRIPTION	COMPLIES YES/NO	BIDDER'S RESPONSE
System description			
Power requirements	220-240Ac, 50Hz		
	Back-up power system through battery or built in system to cover at least 30min on full operation		
Performance requirements			

**THE SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF -
A BI-PLANE IMAGING SYSTEM FOR AN INTERVENTIONAL CARDIOLOGY / CATHETERIZATION LABORATORY**

Item no.	Tender Specification	Comply (Yes/No)	Details of Bid Offer	Reference to Brochure / Technical Data Sheet (where applicable)
A.	CARDIOLOGY			
A.1	<p>A state-of-the-art digital biplane angiography system for cardiac and peripheral vascular interventions, capable of high-resolution, low-dose fluoroscopy, DSA, and 3D imaging. The system shall include large biplane dynamic flat-panel detectors (FPD)/ C-arm system, high-performance X-ray generator, motorized patient table, integrated DSA workstation, and advanced post-processing software.</p> <p>The system shall be suitable for neuro-interventional procedures, cardiac and peripheral vascular interventions, complex endovascular procedures, 3D rotational angiography and Electrophysiology studies.</p>			

A.2	High Pressure Injector for cardiology angiography, interfaced with the imaging system. State brand and model name.			
A.3	The bidder shall provide one (1) integrated acquisition and one (1) post processing workstation in the control room, capable of real time acquisition, advanced post processing, 3D reconstruction and full PACS integration.			
A.4	The system must support seamless image transfer and viewing within the enterprise PACS without loss of image quality or metadata.			
A.4.1	The system shall be fully DICOM 3.0 compliant with DICOM send, receive, query/retrieve, and modality worklist capabilities.			
A.5	Integrated Intravascular-ultrasound (IVUS) and optical coherence tomography (OCT) which provides detailed and accurate measurements of lumen and vessel size, plaque area and volume, and the location of key anatomical landmarks			
A.6	Integrated Pressure monitoring system (iFFR and FFR). Integrated iFR to assess whether a stenosis is causing a limitation of blood flow in coronary arteries with subsequent ischemia. Integrated FFR procedure, that can accurately measure blood pressure and flow through a specific part of the coronary artery.			
A.7	Integrated Hemodynamic system			

A.8	Integrated Electrophysiology system and 3D mapping system			
A.9	The Hemo and EP combo systems should utilize a common database and share the same network infrastructure.			
A.10	Latest Technology Integrated Workstation in Control Room			
A.11	The system shall include a minimum of two (2) latest generation integrated ceiling mounted medical grade large format display monitors not less than 55 inches, to support simultaneous display of frontal and lateral images, roadmap, reference image and patient data.			
B.	GANTRY SYSTEM			
B.1	A motorised floor-mounted C arm stand, and motorised ceiling suspended C-arm stand and digital imaging X-ray system (AP and Lat). A system which allows greater patient coverage and multiple working positions will be preferred. E.g. allowing anaesthetist space on right side patient			
B.2	Frontal stand:			
B.2.1	Motorised movements for all stand positions is a requirement.			
B.2.2	The depth of the frontal C arm \geq 90cm in order to reach the groin without repositioning of the patient			

B.2.3	C-arm rotation / speed: 120° LAO, 120° RAO up to 25°/s or better			
B.2.4	C-arm angulation / speed: 45° cranial, 45° caudal up to 25°/s or better. Greater degrees of angulation in CRAN/CAUD are preferred			
B.2.5	For rotational Angio - rotation speed $\geq 50^\circ/\text{sec.}$ with rotation angle $\geq 200^\circ$ Frame speeds 15 to 30 and 60 fps.			
B.2.6	Source Image Distance 90-125 cm			
B.3	Lateral stand:			
B.3.1.	Motorised movements for all stand positions is a requirement.			
B.3.2	Independent rotation and angulation to provide full caudal and cranial angulations is a requirement			
B.3.4	Source-image distance 90 - 130 cm motorized and manual movement			
B.3.5	Motorised angulation 45° cranial to 45° caudal. Greater degrees of angulation in CRAN/CAUD are preferred			
B.4	The system shall provide a minimum of fifteen (15) programmable examination positions, configurable per user and per procedure type.			
B.5	Patient protection mechanism to protect the patient from unexpected contact between the detector and the body. Describe the method and state the stand positioning in degrees/sec			

C.	PATIENT TABLE			
C.1	A dedicated interventional Cardiac X-ray table, translucent carbon fibre or equivalent for normal catheterization with free floating tabletop, that supports a full range of applications must be included.			
C.2	For Trans-radial access, upper extremity angiography, and patient transfer the table must have a pivot function of $-90^{\circ}/+180^{\circ}$ or $-180^{\circ}/90^{\circ}$			
C.3	Rotation/pivot of patient table with lock mechanism to prevent the table from moving. $90^{\circ}/+180^{\circ}$ or $-180^{\circ}/90^{\circ}$. Please state the range			
C.4	Radiation absorption must be less than 1.5 mm Al equivalent at 100kW			
C.5	Table top length: ≥ 2800 mm, Table width: 45 – 55 cm and Longitudinal float capability: ≥ 100 cm			
C.6	Height adjustment must be motorised, 70 - 100cm.			
C.7	Table should be able to tilt and synchronise to c-arm			
	Table should be compatible with EP system			
C.8	Range of tilt: Trendelenburg: Minimum -15° , Reverse Trendelenburg: Minimum $+15^{\circ}$ and Lateral tilt: Minimum $\pm 15^{\circ}$			
C.9	Table width: ± 45 cm; the tabletop to be tapered towards the chest area for more flexible C-Arms positioning towards the heart region.			

C.10	Metal free overhang approximately 125 cm			
C.11	Floating tabletop movement:			
C.11.1	Longitudinal: Minimum 120 cm			
C.11.2	Transversal: Minimum 2 x 15 cm			
C.11.3	Iso-centric tilt: Trendelenburg + and - 15° (Minimum)			
C.12	Table must support patient of at least 200kg. Please state. Allowance for a further 100 kg (for CPR) with tabletop fully extended. State additional weight of accessories that table can carry. If applicable / needed extra CPR stabilizing table support / pole must be included. IPX4 table will be preferred			
C.13	Tabletop must be suitable for angiographic and interventional procedures. State tabletops included. Cardiology and interventional radiology tabletop required. State radiolucent overhang of the tabletop offered.			
C.14	Table accessory set to be included:			
C.14.1	Rail accessory clamps			
C.14.2	The patient mattress shall have a seamless, waterproof, medical-grade polyurethane cover that is radiolucent, anti-static, fire-retardant, and			

	resistant to hospital disinfectants. The mattress thickness shall be between 40 mm and 80 mm.			
C.14.3	Drip-stand			
C.14.4	Arm support to support the patient's arm when a catheter is used for brachial and radial artery access and arm angiography. The support must consist of X-ray transparent material			
C.14.5	Arm supports that are design to support the patient's arms comfortably during examinations			
C.15	Automatic store and recall position control of c-arm and table height to bring the table back to the original table position without applying additional X-ray dose is a requirement			
C.16	All table system controls must be available on the table.			
C.17	Tablesides controls must be able to be attached on 3 sides of the table (left side, right side and foot end)			
D.	X-RAY GENERATOR			
D.1	High frequency microprocessor-controlled generators			
D.2	Generator Power: must be greater or equal to 100 kW			
D.3	Tube Voltage range from 40 to 125 kV. State kV steps.			

D.4	Maximum current ≥ 1000 mA at 100 kV. Please state minimum and maximum current in mA in continuous fluoroscopy, pulsed fluoroscopy and acquisition mode)			
D.5	Must have anatomical programming			
D.6	Pulsed X-ray up to 60 frames/s for paediatric patients. Please state the frames/s			
D.7	Pulsed X-ray for pulsed fluoroscopy from 3 to up to 30 frames/s for vascular applications. Please state frames/s			
D.8.	Minimum exposure time: 1 ms			
D.9	State range:			
D.9.1	Fluoroscopic kV and mA			
D.9.2	Pulsed kV and mA. Pulsed Time			
D.9.3	Acquisition kV and mA			
D.9.4	Max. continuous power in fluoro mode			
E.	X-RAY TUBE			
E.1	Must have X-ray tube with rotating anode			
E.1.1	State Anode angle : 7- 12 degrees			

E.1.2	State Anode rotation: minimum of 8500 rpm			
E.3	Unit to support focus grid control			
E.3.1	Must have at least 3 focus			
E.4	Small focus maximum 0.4mm Medium focus maximum 0.6mm Large focus minimum 1.0mm			
E.4.1	Anode heat storage capacity must be a minimum 3000 KHU			
E.5	State continuous tube cooling rate			
E.6	State Total inherent filtration			
E.7	Leakage radiation: state dose rate @ 125kV in 1 m distance			
F.	COLLIMATOR			
F.1	The collimator must facilitate the proper collimation for all proposed applications and adequate filtering for lowest possible skin dose in fluoro and acquisition modes			
F.2	Must have rectangular collimation			
F.3	Must have semi-transparent blades			

F.4	The semi-transparent blades must be able to be rotated.			
F.5	The DSA semi-transparent filters must be able to be rotated independently			
F.6	Must have collimation without radiation on LIH image on monitor			
F.8	Additional filters for dose reduction, please state number of Cu filters.			
F.9	Setting of the filters according to the absorption of the patient			
F.10	Setting of the additional filters in fluoro mode			
F.11	Setting of the additional filters in acquisition mode			
F.12	The system must provide feedback on region of interest positioning without using fluoroscopy when the geometry is moved on LIH image to determine a new centre position			
G.	DIGITAL FLAT PANEL IMAGE ACQUISITION DETECTOR SYSTEMS			
G.1	Bi plane / 2 x Dynamic Amorphous Silicon Flat Detectors, which can easily handle complex projections. : AP and Lateral systems: Flat panel detectors. State detector size range (must not be bigger than 25 x 25 cm) (High end, High definition)			
G.2	Detector rotation shall have Integrated Buttons on Detector to Control Detector Lift and Rotation			

G.3	Detector Size need to accommodate cardiac interventions The entire coronary tree must be visualized in a single view with minimal table panning.			
G.4	Maximum Field of View : $\geq 25\text{cm}$ diagonal , but not bigger than 30cm diagonal			
G.5	Indicate Entry fields range .As per defined dedicated cardiac system			
G.6	Pixel size/pitch in μm . The smaller the better IQ. Please state the pixel size/pitch in μm			
G.7	Detector Digitization depth > 14 bits. Please state bits or grayscale levels			
G.8	High resolution			
G.9	Integrated collision protection to stop gantry automatically. Please describe the technology.			
G.10	Removable grid			
G.11	Material: a-Si with CsI scintillator. State a better material			
G.12	Nyquist Frequency not less than 2.7 lp/mm. State size			
G.13	DQE (detector quantum efficiency) state size			
G.14	MTF(Modular Transfer Frequency) state size			

G.15	Signal to electronic noise ratio must be greater 9.4 dB in 5 nGy. State dB size.			
G.16	Image display matrix must at least be 1024 x1024 pixels. State matrix size			
G.17	At least 4 detector zoom fields in cm diagonal square formats. Please state			
G.18	Built in temperature stabilizer			
G.19	Digital fluoroscopy should be possible at 1024X1024, up to 60 FPS. State the matrix			
G.20	At least 3 pulsed fluoroscopy modes must be available			
G.21	Single shot exposures must be possible			
G.22	Last image hold function and instant transfer of fluoroscopy image, both single image and dynamic, to digital storage on a hard disk. State capacity of the hard disk			
G.23	Storage capacity of at least 100 000 frames in 1024 X 1024 matrix for immediate access must be available. State capacity			
G.24	Separate storage for at least 3000 serial and 600 spot images in 1024 x 1024 matrix on DVD-R should be possible. State details			

G.25	Backup recording on DVD-R should also be possible			
G.26	Connection for sending images to a laser printer should utilize a digital or DICOM printing environment			
G.27	ECG-triggered fluoroscopy must also be included.			
G.28	Subtracted road mapping			
G.29	Automatic and manual calibration			
G.30	FUNCTIONALITY MUST ALSO INCLUDE:			
G.30.1	Measuring of distance, angle and area			
G.30.2	Gray scale inversion			
G.30.3	Window and centre control			
G.30.4	Text annotation			
G.30.5	Up to X 2 zoom facility required complete with scroll, zoom and cine loop display. State capability			
G.30.6	Horizontal (R/L) and vertical (up/down) image flip			
G.30.7	Gamma curve selection			
G.30.8	Does it have multi-frame display with study/series overview			
G.30.9	Auto Cine loop through all scenes			

<p>G.30.10</p>	<p>The system must import CT volume datasets with (semi-) automatic registration for fluo overlay for EP functionality.</p> <p>Automatic segmentation of the RA of imported CT volumes for Electrophysiology must be possible.</p> <p>The system can import CT volume datasets with (semi-) automatic registered for fluo overlay for Endovascular Aneurysm Repair</p> <p>3D identification of ostia prior to fenestrated stent placement in EVAR</p> <p>The system can import CT volume datasets with (semi-) automatic registered for fluo overlay for TAVI procedures.</p> <p>Planning of TAVI devices prior to the treatment</p> <p>Rotational angiography at minimal should be possible</p> <p>DSA capability, with dedicated post processing as pixel shift, land marking, view trace, re-masking must be possible</p> <p>Improved stent visualization in subtraction mode with image freeze function of coronary movement. Results available without any interaction max 5 sec after the run.</p> <p>Improved stent visualization under LIVE fluoroscopy mode with image freeze function of coronary movement. To evaluate live stent deployment and positioning</p>			
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	<p>Live fusion of devices on a prior cine run for navigation purposes to reduce time and contrast medium</p> <p>Off-line QA packages for Coronary analysis. The workflow in the examination room and control room must be in parallel.</p> <p>Off-line QA packages for Vascular analysis. The workflow in the examination room and control room must be in parallel.</p> <p>Off-line CD/DVD recording</p> <p>3D volumes for analysis</p> <p>Cone Beam CT for pre and post diagnosis in neuro to investigate haemorrhage bleedings</p> <p>Cone Beam CT for pre and post diagnosis in neuro, intervention to visualize intracranial stents</p> <p>Superposition of fluoroscopy on top of 3D volumes in real time</p> <p>Gantry, SID and FOV be changed during fluoroscopy in real time with superimposed fluoroscopy on 3D volumes</p>			
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H.	INTEGRATED HEMODYNAMIC RECORDING AND INFORMATION SYSTEM. CARDIAC PACS MUST BE SUPPLIED / INCLUDED			
H.1	Functional requirements & Input Data			
H.1.1	ECG (Real time ECG monitoring with appropriate ECG cables and connections x 3 sets)			
H.1.2	Available leads, describe			
H.1.3	Sampling rate in Hz			
H.1.4	Leakage current			
H.1.5	Heart Rate Detection rate			
H.1.6	A/D Converter resolution			
H.1.7	Lead-off detection, number of leads. Describe			
H.1.8	Sensitivity			
H.1.9	Integrated module in amplifier box			
H.1.10	In exam room measurements must be possible			
H.1.11	Software to calculate Constrictive pericarditis must be included			
H.1.12	Software to calculate Systolic Area Index			

H.2	Blood Pressure			
H.2.1	Pressure input channels (At least 2 Channels)			
H.2.2	Measurement range			
H.2.3	Resolution			
H.2.4	Integrated module in amplifier box			
H.3	SpO2			
H.3.1	O2 Saturation range in %			
H.3.2	Accuracy in %			
H.3.3	Integrated module in amplifier box			
H.4	Respiration			
H.4.1	For adults, infants and neonates			
H.5	Cardiac Output			
H.5.1	Thermodilution method			
H.5.2	Measurement range in l/min			
H.5.3	Blood temperature in degrees Celsius			
H.5.4	Injectate temperature in degrees Celsius			

H.5.5	Integrated measurement in amplifier box			
H.6	Signal input and Catheter input box			
H.6.1	State mounting location			
H.7	Monitors/ Flat Panel Displays: State Number and locations At least 2 in control room (one for live pressure monitoring and one for analysing / processing of pressures during procedure without interrupting the live pressure screen) and integrated to big screen monitor inside examination room(live pressure screen). State the following:			
H.7.1	Control Room			
H.7.1.1	Type and size			
H.7.1.2	Resolution			
H.7.2	Examination Room			
H.7.2.1	Type and size			
H.7.2.2	Resolution			
H.8	Post Processing Workstation. Describe functionality in detail.			
H.8.1	Paper printer for the images on the Post processing W/S			

H.8.2	A doctor's viewing station in consulting room to view live imaging and PACS images			
H.9	Reporting software (in WORD format). Describe fully			
H.10	Export of patient exam results in DICOM 3 for storage on PACS			
H.11	Interfaces			
H.11.1	Integrated to X-Ray systems, describe:			
H.11.1.1	Transferring patient demographic data to an X-Ray system			
H.11.1.2	Receiving of exam and dose report from X-Ray system			
H.11.1.3	Remote control of recording functionality at tableside under sterile conditions			
H.11.2	Integrated iFFR and FFR system			
H.11.3	Integrated IVUS system			
H.11.4	Integrated Electrophysiology System and 3D mapping system. State brand and model offered			
H.11.5	Paper printer for printing Hemo system results			
H.11.6	Barcode reader for entering consumables			
H.11.7	Integrated with Dedicated Cardiac PACS			

H.11.8	State maximum mA possible for fluoro. Higher than 200mA is preferred.			
H.11.9	Images / Pressures to be downloadable for presentations (describe)			
H.12	Electrophysiology and 3D mapping systems to be offered			
H.12.1	Fusion of 3D anatomy from pre-procedural cardiac CT or MR scan with real-time 2D. Built-in filter to filter signal interference received from 3D Mapping and Localization Systems such as Carto and ESI System			
H.12.2	The segmented CT or MR anatomy must be transferred to a compatible mapping system, allowing navigation of catheters on images with real 3D anatomical detail without using X-ray.			
H.12.3	EP- recording system extra-stimulus stimulator.			
H.12.4	Choices of 32, 64, 96 or 128 true bi-polar channel amplifiers should be available			
H.12.5	Support 1k, 2k, and 4k sampling rate			
H.12.6	4 Analog Input Channels.			
H.12.7	Single analog to digital conversion and fibre optic transmission for superior signals			
H.12.8	4 Physiologic stimulator Input Channels.			

H.12.9	12-lead ECG Quick Connect cable to simplify setup			
H.12.10	Intracardiac Quick Connect cable to simplify setup			
H.12.11	Catheter Interface Module. Support up to 224 Catheter Inputs without losing any other signal such as NIBP, ECG, etc. Catheter input modules allowing faster configuration. The system should option an integrated signal acquisition monitoring including HR, SpO2, Pleth Waveform, NIBP, IBP, TDCO.			
H.12.12	RF Generator and integrated irrigation pump.			
H.12	NETWORKING: Needs to be fully installed and integrated with hospital system and supplied Cardiac PACS System			
H.13.1	DICOM or alternative networking system compatibility(PACS/RIS compatible)			
H.13.2	DICOM 3 conformance statement to be included			
H.13.3	DICOM Print must be possible			
H.13.4	Ability to generate a report post examination			
H.13.5	DICOM send (including exporting or transferring images to PACS/RIS)			
H.13.6	DICOM query / retrieve			

H.13.7	DICOM format recordings ,CD & DVD-R for backup, inclusive of archiving software			
H.13.8	Secondary Capture Dose Report function that allows the user to save & transfer, manually or automatically, a patient Dose Report to PACS in DICOM secondary capture format.			
I.	DIGITAL IMAGING AND POST PROCESSING			
I.1	The digital imaging system must be of the latest technology and must support all necessary post processing and display features for all dedicated examinations.			
I.2	State the image acquisition matrix, bit depth, max. fps			
I.3	State the review and display matrix and bit depth			
I.4	Does the system offered have standard video output for monitor display			
I.5	Fluoroscopy:			
I.5.1	Review and display at pulsed fluoro rates.			
I.5.1.1	State the frame rates for each mode			
I.5.2	State whether the system can continue working if one of the focal spots are faulty.			
I.6	Acquisition:			

I.6.1	Review and display at fps (matrix) state the frame rates in each mode			
I.6.2	DSA acquisition, review and display at fps (matrix) State the frame rates in each mode			
I.7	Must be able to do single image acquisition			
I.8	Real-time on-line image harmonization/dynamic density optimization in fluoro and acquisition mode			
I.9	Automatic gap filling for flicker free image display for all frame rates			
I.10	State the maximum frame speed at which harmonization is supported in real-time			
I.11	Parallel acquisition, processing, displaying and storing of runs in the background			
I.12	Automatic real time processing including edge enhancement, contrast enhancement, windowing and image filtering			
I.13	Zooming, roaming, electronic shutters			
I.14	The electronic shutter on LIH must automatically set the collimator blades for the next fluoro or acquisition run			
I.15	Free annotation of images			
I.16	Evaluations: distance, angle measurement			

I.17	Automatic and manual calibration			
I.18	Real time auto pixel shift			
I.19	Remasking			
I.20	Peak opacification min/max			
I.21	Image stacking			
I.22	Image inversion			
I.23	Review of acquired images in slow motion, frame by frame in forward and reverse			
I.24	Landmarking: adding the anatomical background to the subtracted image from 0% to 100%			
I.25	State image storage capacity for on-line access (hard disc)			
I.25.1	- for images 1,024 x 1,024 at 12 bits			
I.25.2	- for images 512 x 512 at 12 bits			
I.26	It must be possible to store fluoro runs			
I.26.1	- time period for storing fluoro runs			
I.27	Subtracted road mapping			

I.28	Standard Angiography			
I.28.1	Fluoroscopy, digital angiography as well as digital subtraction angiography acquisition modes are required			
I.28.2	Fluoroscopy exposure rates of up to 60 exposures per second are required			
I.28.3	Fluoroscopy image processing to include			
I.28.3.1	Noise reduction spatial filter			
I.28.3.2	Signal enhancement spatial filter.			
I.28.3.3	Recursive filter.			
I.28.3.4	Gray-scale processing.			
I.29	Fluoroscopic image manipulation to include:			
I.29.1	(i) Image magnification (ii) Image rotation (iii) Image subtraction (iv) Peak hold (v) Image hold			
I.30	Rotational Angiography			

I.30.1	Rotational angiography to provide 3D impressions of complex vasculature and the coronary artery tree is a requirement			
	Cardiac Acquisition			
I.30.2	Frame rates of at least 0,5- 30 frames /second are required. Specify capacity.			
i.30.3	Minimum of two (2) latest generation integrated high-resolution displays. Size \geq 27 inch. Allowing parallel working environment where team members can do two tasks at the same time in the exam room and control room, without interrupting each other. E.g fluoroscopy/exposure is taking place, a radiographer in the control room can instantly review previous images from the same patient, prepare the next exam or finish reporting on another patient.			
i.30.4	<p>The system must:</p> <p>Support for Teaching and Interacting with Control and Inspection Rooms with Pointers on Live Monitor</p> <p>Supports Adding Graphics to Live Images for Treatment Localization</p> <p>Support Image Zoom, Invert, Annotation and Reset Operation</p>			

	<p>Support Windowing and Edge Enhancement Adjustment</p> <p>Support Electronic Shutter</p> <p>Support Subtraction/Mask Switch</p> <p>Support Select/Change Mask</p> <p>Support Max Opacification</p> <p>Support Auto Calibration/Catheter Calibration/Length Calibration</p> <p>Support Measures of Length/Curve/Ratio/Angle</p> <p>Support Real-time Dual View of Different Image</p> <p>Support Image Cropping</p>			
J.	EXAMINATION ROOM MONITORS AND CONTROLS			
J.1	An integrated viewing solution designed to give user full control over viewing in the interventional suite			
J.2	Inside the examination room, there must be ceiling suspension for all monitor that allow free positioning of the monitor around the table side.			
J.3	Minimum 55-inch (Large Screen), 8 Mega Pixel colour LCD with LED backlight in the Exam Room, display information up to 18 sources, including 3rd party systems			

J.3.1	Adjust and customize viewing lay-outs of the 55-inch colour LCD			
J.3.2	Examination room monitors must be minimum of two (2) latest generation integrated ceiling-mounted medical-grade displays. Minimum size: 55 inches. Resolution: Minimum 1920 × 1080. Exam Room Monitor ≥8MP. Multi-image display capability. Control Room Monitors must be minimum of two (2) latest generation integrated high-resolution displays, Size≥ 27 inch. Resolution≥1920 x 1080.			
J.4	Must be able to display live images and reference images			
J.5	Full protective screen to protect against any collisions			
J.6	Automatic brightness adjustment dependent on ambient light			
J.7	The monitor must also display the following:			
J.7.1	Rotation and angulation values			
J.7.2	X-ray tube load status			
J.7.3	Selected fluoroscopy mode			
J.7.4	Selected detector field of view			

J.7.5	Rate and accumulated dose			
J.8	The monitor must be on a ceiling suspension that allows free positioning of the monitor around the table			
J.8.1	Functionality to import and export of images from and to the PACS must be available, and be displayed on the monitor in the examination room			
J.9	Controls:			
J.9.1	Full control of image display and reviewing must be available at the table			
J.9.2	All movements of the C-arm system			
J.9.3	All table movements			
J.9.4	Image post-processing and quantification			
J.10	The controls for all fluoro and acquisition modes must be available at the table			
J.11	The controls for fluoro storage/fluoro grab must be available at the table			
J.12	The controls for image/scene review and monitor display mode must be available at the table			
J.13	The archived images must be displayed on the monitors in the examination room			

J.14	Examination room			
J.14.1.1	The system shall provide a table- side operation module/ console enabling the operator to control fluoroscopy, acquisition modes, fluoro storage, image review, collimation and image display layout on the examination room monitors			
J.14.1.2	Gantry movements and collimation			
J.14.1.3	All fluoroscopy and acquisition mode controls (at table)			
J.14.1.4	All fluoro storage and fluoro grab controls (at table)			
J.14.1.5	Fluoro loop storage (required as part of main offer)			
J.14.1.6	Quantitative Analysis			
J.14.1.7	X-Ray settings (Collimation, Projections, Table, Series and Processing)			
J.14.1.8	Activation of special procedures like rotational angiography (RA) and other advanced interventional tools, at the table side			
J.14.1.9	Control hemodynamic system from table side to optimises workflow in the interventional lab by seamlessly integrating the hemodynamic system with the X-ray system.			
K.	CONTROL ROOM			

K.1	Integrated workstations and Fluoroscopy monitoring and Hemodynamic Monitoring system with adequate screens needed.			
K.2	Dual monitor for hemodynamic system (2 x 21' monitors minimum)			
K.3	Minimum of two (2) latest generation integrated high-resolution displays. Size \geq 27 inch. Allowing parallel working environment where team members can do two tasks at the same time in the exam room and control room, without interrupting each other. E.g fluoroscopy/exposure is taking place, a radiographer in the control room can instantly review previous images from the same patient, prepare the next exam or finish reporting on another patient.			
K.4	Data and review functions must be controlled by a single keyboard and mouse.			
K.5	Able to review processed images.			
K.6	Review module with functions, to enable review.			
K.7	Frame speed settings, fluoroscopy mode, and accumulated fluoroscopy time			
K.8	Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and time (ms)			
K.9	Geometry information e.g. rotation, angulations, and SID			

K.10	Clinical cases must be archived to a CD/DVD, USB and a PACS. The archive process must be completely automated and customized with settings.			
K.11	Customizable system set up for room and patient preparation for each individual physician.			
K.12	Lead (Pb) in control room must be a minimum of 5mm Pb and a manufacturer's certificate must be supplied			
L.	RADIATION DOSE SAVING AND DOSE DOCUMENTATION MEASURES			
L.1	There must be comprehensive measures to reduce the applied dose for the patient and the staff. Describe software applications included as standard which minimise radiation dose to patient and staff without affecting image quality. Supply details			
L.2	System must automatically calculate and display skin entrance dose, cumulative dose, total radiation dose and fluoroscopy time. State capability			
L.3	System must automatically generate a structured patient dose report for all exams.			
L.4	Grid Switch technology			

L.5	The system must allow considerable dose reduction by special filters in fluoro and acquisition modes. State how many Cu filters are included.			
L.6	Fluoro modes with different system dose settings per pulse, which can be selected by the user on the fly			
L.7	Acquisition modes with different system dose settings per pulse, which can be selected by the user on the fly			
L.8	The system dose settings to be varied for each listed mode			
L.9	Radiation free collimation on the LIH image			
L.10	Fluoro frames must be stored for later review and documentation			
L.11	Fluoro frames to store automatically to potentially avoid the need for acquisition runs at higher dose			
L.12	Systems that do not require test shots to determine the parameters for cine runs will take priority. State method			
L.13	Does the system offer the automated addition of filters in Cu			
L.14	Manually or according to the organ programme only			
L.14.1	Automatically for each patient and each angulation			
L.14.2	The grid must be removable for paediatrics			

L.15	Does the system have a measuring chamber for the display and documentation of skin dose and area dose product			
L.16	Can the system provide enlarged display of finest image details at lower dose?			
L.17	List other measures offered by vendor for dose reduction to patient and staff. The system shall include vendor-approved QA software and multipurpose angiography phantom suitable for routine acceptance testing, commissioning and periodic quality control of fluoroscopy and DSA imaging (QA tests)			
M.	AUTOMATIC CONTRAST INJECTOR: (MUST BE INCLUDED)			
M.1	Contrast injector with and contrast injection capabilities is required specifically for cardiac, angiographic and other contrast enhanced studies.			
M.2	State the brand of the contrast injector offered.			
M.3	Must have a user-friendly operating panel for overall control of the injection process			
M.4	Injector must include:			
M.4.1	Flow rate selection - state range			
M.4.2	Facility for multi phased injection - state number of phases possible			

M.4.3	Selection of volume to be delivered			
M.4.4	Scan delay			
M.5	Read out of:			
M.5.1	Volume delivered			
M.5.2	Volume remaining			
M.5.3	Programming facility			
M.5.4	Emergency stop on remote control			
N.	STANDARD ACCESSORIES (ALL ACCESSORIES MUST BE INCLUDED AS STANDARD AND INCLUDED IN BID PRICE)			
N.1	Hand end holder for radial approach			
N.2	Arm rests for standard femoral and radial procedures			
N.3	IV bottle holder			
N.4	Clips for ECG Cables			
N.5	Handles for patient elbow support			
N.6	Surgical LED theatre light			
N.7	Table radiation shield			

N.7.1	Ceiling mounted radiation shield			
N.8	160 kVA Inline UPS (Provide full details)			
N.9	Advanced clinical tools			
N.9.1	PCI procedures			
N.9.1.1	Enhancement of Stent visualisation in coronary artery in real time, showing the deployed stent in relation to the vessel wall. Describe the capability of the system offered. A comprehensive response is required.			
N.9.1.2	Bi Plane Left Ventricle analysis (LVA)			
N.9.1.3	Quantitative Coronary Analysis (QCA)			
N.9.2	Structural Heart Disease:			
N.9.2.1	Congenital heart defect correction e.g. Repair of coarctation of the aorta			
N.9.2.2	High-resolution 3D reconstructions generated from rotational angiogram run and single contrast injection vascular to supports accurate assessment of vascular pathologies			
N.9.2.3	3D Roadmap to navigate inside the 3D vascular volume to find access easily in tortuous vascularity			

N.9.2.4	Overlay roadmap on previously acquired MR and CT angiography datasets on live fluoro image to reducing the need for additional X-ray dose and contrast medium			
N.9.2.5	Transcatheter aortic valve replacement or implantation (TAVR/TAVI) , mitral valve replacement, left atrial appendage closure (LAAC)			
N.9.2.6	Automatically segmentation of heart chambers ,anatomical structures, landmark and anatomical planes from previously acquired DICOM compliant CT datasets to assist with planning the intervention, safely navigating the device through anatomy and deploying the device in the correct position.			
O.	OTHER REQUIREMENTS			
O.1	Ceiling and floor reinforcement			
O.2	Lead proofing of the theatre			
O.3	Inline uninterrupted power supply unit. 160kVA			
O.4	Company to supply and maintain required and appropriate Air Conditioning to cool the imaging system			
O.5	A cartridge-based blood gas machine with a sample rate of 750 samples per month must be supplied and maintained for the period of the maintenance contract, consumables must be included			

O.6	Bidder to supply 10 x 0,35mm vest, skirt 2-piece lead aprons and 2 movable racks for lead aprons, 10 x lead hats, 10 x 0.5mm lead thyroid shield			
O.7	Bidder to supply 5 x lead (Pb) glass spectacles/goggles (bidder to liaise with end-user before delivery)			
O.8	Bidder to supply a retractable(at different heights) lead(Pb) protection screen on a trolley			
O.9	Bidder to supply lead apron attached to the bed to protect the surgeon lower extremities			
O.10	Bidder to supply ceiling suspended lead screen			
O.11	Bidder to supply 2 pairs x lead gloves			
O.12	<p>The bidder shall provide a dedicated UPS system with a minimum backup capacity of two (2) hours at full system operational load to ensure uninterrupted operation of the angiography system including gantry, imaging chain, workstations, control console and display monitors.</p> <p>The UPS shall allow safe continuation or completion of procedures during power interruptions.</p>			