health
Department:
Health
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

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SUPPLY CHAIN MANAGEMENT

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INVITATION TO BID NWDOH 06/2026: APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS

Open bids are hereby invited for appointment of service providers for supply, delivery, installation, commissioning and maintenance of imaging radiology equipment items for various institutions of the north west province for a period of forty-eight (48) months

The conditions contained in the Preferential Procurement Policy Framework Act and 2022 PPPFA Regulations, National Treasury Implementation Guide: Preferential Procurement Regulations 2022, the General Conditions of Contract (GCC) and/ NEC 3 Engineering & Construction Contract, i.e. Annexure "A" and the attached bid forms, as well as any other conditions accompanying this invitation, are applicable.

1. The work procedure the bidder proposes to follow in order to obtain the required result must be clearly outlined and its terms may not conflict with those contained in the General Conditions of Contract.

2. All the documents accompanying this invitation to bid must be completed in detail where applicable, and together with all documentation required in considering the bid, be sealed in an envelope and be deposited in the bid box before the closing date and time.

3. The proposals in a sealed envelope and marked with the Bid Number , Company Name, Closing Date and Closing Time should be deposited in the Bid Box situated at the entrance of the **Department of Health North West, New Office Park Building, Ground floor, Corner First Street and Sekame, Mmabatho [Behind the Crossing Mall]. No correspondence will be entered into regarding non-submission/attachment of required documents after bid closure. Failure to submit all the required documents will render your bid non-responsive**

4. Duly completed and signed original bid documents issued by the Department should be sealed in an envelope marked:

Bid number : **NWDOH 06/2026**

Company Name :

Closing date : **22 APRIL 2026**

Closing time : **11H00**

Technical enquiries: Mr Mr. B.K Khumalo – 060 973 3456

bethuelkhumalo@nwpg.gov.za

No telegraphic or facsimile bids will be considered.

5. In terms of the PFMA Treasury Regulations 2005;-

A. **Regulation 16A9. 1 [e] and [f]** the Accounting Officer of the Department may-

i. Reject a proposal for the award of a contract if the recommended bidder has committed a corrupt or fraudulent act in competing for the particular contract, or

ii. Cancel a contract awarded to a supplier of goods or services

- If the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract, or
- If any official or other role-player committed any corrupt or fraudulent act during the bidding process or the execution of that contract that benefitted that supplier.

B. **Regulation 16A9.2 [a] and [b]** the accounting officer or accounting authority-

i. May disregard the bid of any bidder if that bidder, or any of its directors-

- Have abused the institution's supply chain management system
- Have committed fraud or any other improper conduct in relation to such system.

C. Bidders may NOT buy gifts for or ask for cell phone numbers from Bid Committee Members or contract managers during briefing sessions, evaluation and adjudication of bids. In terms of the **NATIONAL TREASURY MINUTE3/3/3/2/10 DATED 23 APRIL 2006-CODE OF CONDUCT FOR BID ADJUDICATION COMMITTEES** governing the Conduct of all Bid Committees, Stakeholders and SCM Practitioners involved in the SCM processes:-

i. Bid information and documentation are confidential

ii. No unauthorized communication should be made with a bidder/contractor by any member, stakeholder or SCM Practitioner prior to or after any meeting during the evaluation and adjudication of bids

D. **IN TERMS OF THE NATIONAL TREASURY SCM PRACTICE NOTE NUMBER: SCM 4 OF 2003; CODE OF CONDUCT FOR SUPPLY CHAIN MANAGEMENT PRACTITIONERS -**

"6.5. No person should:-

"6.5.1 Interfere with the supply chain management system of an Institution

"6.5.2 Amend or tamper with any bid after its submission

6. Bidders should ensure that all the relevant documentation required in considering bids are submitted. **Failure to submit all the required documents may render your bid non-responsive**

7. The Department will not be held responsible for missing or duplicated documents. **Bidders are required to sign, number sequentially and initial on each page of the bidding documents. Bid documents must be binded.**

8. It is the ultimate responsibility of every bidder to ensure that his/her bid is duly deposited in the Bid Box situated at the entrance of the Department of Health North West, New Office Park Building, Ground floor, Corner First Street and Sekame, Mmabatho on time before the closing date and time. **The Department of Health shall not be held responsible for any couriered bid documents that do not reach the Bid Box by the Closing date and time. – Couriered documents must be deposited in the bid box by Couriers before the closing date and time .No correspondence will be entered into regarding late bids and couriered documents that were not deposited in the bid box by the bid closing date and time.**

9. The Department of Health reserves the right to award any bid in whole or in part and the Department **does not bind itself to accept the lowest or any bid in whole and price alone is not a determining factor.**

10. National Treasury has per Circular no 3 OF 2015/2016 given instructions to all PFMA Institutions that with effect from 01 April 2016, no quotation or bid may be awarded to any supplier who is not registered as a Prospective Supplier on the National Treasury Central Service Provider Database [CSD]. If you are not registered proceed to complete the registration of your company prior to submitting your bid. Refer to https://secure.csd.gov.za/ to register your company. Ensure that all documentation on the database are updated and valid. Bidders should further note that the Central Supplier Database (CSD) will be utilized to confirm compliance to tax and other related matters. It is therefore the bidder's responsibility to ensure compliance in all respects.

11. For more information please contact the following:

ADMINISTRATION ENQUIRES:

1. Ms T. Diphoko 066 293 9914 / diphokot@nwpg.gov.za
2. Ms T. Matshoba 066 081 6386 / ttsineng@nwpg.gov.za

TECHNICAL ENQUIRIES:

1. Mr. B.K Khumalo – 060 973 3456 /bethuelkhumalo@nwpg.gov.za

Potential bidder(s) must reduce all telephonic enquiries to writing and send them to the above email addresses.

12. CONDITIONS TO BID

This bid is issued under the condition that the bidder should at any stage during production or execution or on completion of the bid be subject to inspection. The premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by the representative of the Department of Health or organization acting on behalf of the State. The bidder shall provide, if required, all required facilities for inspections, tests and analysis of the land available, apparatus which may be required for the purpose of such inspection, tests and analysis free of charge unless otherwise specified. The bidder also agrees that the financial standing of the bidder may be examined as part of the inspection

13. RISK ANALYSIS

A risk analysis as per applicable legislation and prescripts shall be used to establish the competency and ability of the successful bidder for the project

14. BID CONDITIONS

a) Late bids will not be considered. Please note that bids are late if they are received at the address given in the bid document after the bid closing date and time.
b) Bids will be valid for a period of 120 days.
c) All bid prices must be quoted in South African currency and must be VAT inclusive.
d) All the Relevant Forms attached to this bid document must be completed and signed in black ink where applicable by a duly authorized official. Use of tippex and pencil in the bid document are not allowed. Where cancellation has been made, bidders should endorse with a signatures

15. BID ADMINISTRATION DOCUMENTS TO BE SUBMITTED BY ALL BIDDERS:

National Treasury has per **PFMA SCM INSTRUCTION NO.9 OF 2022/2023 MANDOTRY UTILISATION OF THE E-TENDER PORTAL FOR PUBLICATION OF BID OPPORTUNITIES, BID AWARDS AND ANY BID RELATED NOTIFICATIONS DATED 13 OCT 2022** prescribed the mandatory advertisement of bids on the e-tender Publication Portal by all departments. Constitutional institutions and public entities listed In Schedules 2 and 3 to the Public Finance Management Act (PFMA). 1999 (Act No.1 of 1999), hereafter referred to as PFMA compliant institutions. This application is aimed at ensuring that all potential service providers have easy access to advertised bids and are provided with an opportunity to supply PFMA compliant institutions with goods and services, as they may require. With effect from 1 Nov 2022, all PFMA compliant institutions must submit the following information to the relevant treasury's e-Tender Publication Administrator in support its advertisement:

a) Bid description;
b) Bid number;

c) Name of the PFMA compliant institution;
d) The place where the bid is required;
e) The closing date and time of the bid;
f) The PFMA compliant institution's contact details (postal and physical address, Telephone number, etc.);
g) The place where bids can be collected;
h) The place where bids should be delivered; and
i) The bid document, that is,
   - Invitation to Bid-which explains the bid administration requirements and the evaluation criteria, to be complied with by all bidders.
   - SBD Forms Prescribed by National Treasury- to be completed by all Bidders without exception
   - Technical Bid Specifications/Terms of Reference or Bill of Quantities requirements - depending on the technical nature of the bid.

16. BID ADMINISTRATIVE REQUIREMENTS/CRITERIA TO BE USED IN EVALUATING A BID

The National Treasury **Supply Chain Management Circular Ref 3/4/3/2/10 dated 10 May 2005**: Page 2 Paragraph 1 stipulates that "Bids may only be evaluated in accordance with the evaluation Criteria stipulated in the bid documentation"

All the under-mentioned documentation /criteria required to evaluate this bid must be sealed in an envelope and be deposited in the bid box before the closing date and time.

ALL BIDDERS ARE REQUIRED TO ENSURE THAT THE FOLLOWING DOCUMENTS ARE ATTACHED:-

(a) Original, fully completed and signed applicable SBD Bid Documents and Preference Claim Forms in terms of the Preferential Procurements Regulations and National Treasury SCM prescripts. **NB. All Bidders are required to fully complete the SBD forms (SBD form 1, 3.2, 4, 6.1,) as required by the National Treasury PFMA prescripts and the PPPFA Regulations AND to fully complete all other forms as required by the specification, without fail.**

NB: Bidders disclosure on SBD 4 (Must declare other companies that they own. Refer to Paragraph 2.3). In case of joint venture, both companies should complete separate SBD forms

(b) Copies of Identity Documents of the Directors / Main Shareholders of the company.

(c) Valid Tax Clearance Certificate/ Tax Compliance Status PIN or CSD Report- The Department will also verify the tax compliance status of bidder

(d) Copy of Company Registration Certificate from the Registrar of Companies of all Parties indicating the names of directors or main shareholders of the company. **NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which**

do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company.

(e) Bidders are required to submit a copy of a valid B-BBEE Status level Verification Certificate, together with their bids, to substantiate their B-BBEE rating claims.
An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less

(f) Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE.

(g) **In the case of joint venture (JV) or Consortium the following documents must be attached to the Bid documents:-**

- Copy of Valid Tax Clearance Certificate pin of all Partners- / Tax Compliance Status PIN or CSD report- The Department will also verify the tax compliance status of bidder

- Copies of Identity Documents of all Directors / Main Shareholders of the company.-

- Joint venture agreement duly signed by all parties

- A certificate or agreement regarding shareholder -ship of members

- Copies of Company Registration Certificates from the Registrar of Companies of all Parties to a Joint Venture indicating the names of directors or main shareholders of the companies to the joint venture.-**NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company**

- Copy of a valid Consolidated B-BBEE Status level verification Certificate.-An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less -Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE

(h) A Trust, consortium or a joint venture are required to submit a Consolidated-BBEEE Status Level Verification Certificate for every separate bid

(i) Public entities and tertiary institutions are required to submit B-BBEE Status level verification certificates together with their bids

All the bid documents should be completed, signed and sealed in an envelope and deposited in the Bid Box, situated at the entrance of the **Department of Health North West, New Office Park Building, Ground Floor, Corner First Street and Sekame, Mmabatho.**

16. VALIDITY OF B-BBEE STATUS LEVEL VERIFICATION CERTIFICATES

- AO/AAs must ensure that the B-BBEE Status Level Verification Certificates submitted are issued by the following agencies:

  - Tenderers other than EMEs
    I. Verification agencies accredited by SANAS; or
  - Tenderers who qualify as EMEs
    II. Sworn affidavit signed by the EME representative and attested by a Commissioner of oaths.

16.1 Verification agencies accredited by SANAS

16.1.1 These certificates are identifiable by a SANAS logo and a unique BVA number.

16.1.2 Confirmation of the validity of a B-BBEE Status Level Verification Certification can be done by tracing the name of the issuing Verification Agency to the list of all SANAS accredited agencies. The list is accessible on http://www.sanas.co.za/directory/bbee default.php

16.1.3. The relevant BVA may be contacted to confirm whether such a certificate is valid.

16.1.4 As a minimum requirement, all valid B-BBEE Status Level Verification Certificates should have the following information detailed on the face of the certificate:

- The name and physical location of the measured entity
- The registration number and, where applicable, the VAT number of the measured entity;
- The date of issue and date expiry;
- The certification number for identification and reference;
- The scorecard that was used (for example QSE, Specialized or Generic);
- The name and / or logo of the Verification Agency;
- The SANAS logo

- The certificate must be signed by the authorized person from the Verification Agency; and
- The B-BBEE Status Level of Contribution obtained by the measured entity

17. VERIFICATION OF B-BBEE LEVELS IN RESPECT OF EMEs

17.1. In terms of the Generic Codes Practice, an enterprise including a sole propriety with annual total revenue of R10 million or less qualifies as an EME

17.2 in instances where Sector Charters are developed to address the transformation challenges of specific sectors or industries, the threshold for qualification as an EME may be different from the generic threshold of R10 million. In such instances, the relevant sector Charter threshold will therefore be used as a basis for a potential bidder to qualify as an EME. (For example the approved threshold for EMEs for the Tourism and Construction Sector Charters are R2.5 million and R1.5 million respectively)

17.3 An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 million or less and level of black ownership to claim points as prescribed by regulation 6 and 7 of the preferential procurement regulations 2017.

17.4 An EME that is regarded as a Specialized Enterprise is required to submit a sworn affidavit confirming their annual turnover/allocated budget/ gross receipt of R10 million or

17.5 An EME may be measured in terms of the QSE scorecard should they wish to maximize their points and move to a higher B-BBEE recognition level. It is this context that an EME may submit a B-BBEE verification certificate

18. EVALUATION CRITERIA FOR THIS BID IS AS FOLLOWS:

- 90 = Price (All bid price/should be VAT inclusive)
- 10 = Specific goals (Points will be allocated according to Specific goals table below)

Specific Goals	**Procurement Transaction** **Preference Points allocated out of 10**
B-BBEE Status level of Contributor	**5**
1	5
2	4
3, 4, 5, 6, 7, 8 and Non-compliant contributor	0
Enterprises located in a specific province for work to be done or services to be rendered in that area (Mandatory)	**3**
Residing within the North West Province where the service is required.	3
Residing outside the North West Province	0
Designated Groups (any bid that meets 1 or more of the 5 will get the maximum points)	**2**
• Enterprises 51% owned by black women. • Enterprises 51% owned by people with disability • Enterprises 51% owned by black youth. • Enterprises 51% owned by military veterans • Registered Cooperatives within the North West department of Health database	2

NB: Points will be allocated to all those who submitted their BBBEE verification certificates/Sworn Affidavit and Confirmation of preferred address on CSD will be checked and printed by the SCM Practitioner for locality points.

CHIEF DIRECTOR: SUPPLY CHAIN MANAGEMENT

DATE: 13/03/2026

COMPLIANCE CHECKLIST ***NB. THE BIDDERS MUST COMPLETE THE CHEKLIST TO VERIFY/CONFIRM WHETHER A BIDDER HAS ATTACHED ALL OF THE BID ADMINISTRATIVE REQUIREMENTS***		
NO	***REQUIREMENT***	***HAVE YOU ATTACHED*** ***Answer Yes or No***
1	Compulsory Briefing session	**N/A**
2	General Revenue Receipt should be attached by all bidders who obtained hardcopy bid documentation at the Offices of the Health Department-.Original Bank Deposit slip or Electronic Transfer printout receipt reflecting the name of the Bidder and Bid Number. **NB–Bidders who download the bid documentation from the E-Tender Website are exempted from this requirement. Bidders are encouraged to download the bid documentation from the E-Tender Website**	
3	Original, fully Completed and signed applicable Bid Documents and Preference Claim Forms in terms of the Preferential Procurement Regulations. NB. All Bidders are required to fully complete the SBD forms as required by the National Treasury PFMA prescripts and the 2022 PPPFA Regulations AND fully complete all other forms as required by the specification, without fail. Any bidder having not complied with these requirements shall be disqualified. [Each of the following SBD form must be fully completed and signed.]	
3.1	Availability of signed and fully completed SBD 1- Invitation to bid	
3.2	Availability of signed and fully completed SBD 3.2- Pricing Schedule – Non-Firm Prices(Purchases)	
3.3	Availability of signed and fully completed SBD 4- Declaration of Interest **Bidders disclosure on SBD 4 (Must declare other companies that they own. Refer to Paragraph 2.3). In case of joint venture, both companies should complete separate SBD forms**	
3.4	Availability of signed and fully completed SBD 6.1 - Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022 **Non-claiming of points on this form will lead to zero (0) even if supporting documentation is attached**	
4	Copies of Identity Documents of all Directors / Main Shareholders of the company.-	

5	Copy of Valid Tax Clearance Certificate / Tax Compliance Status PIN or CSD Report- Indicate the expiry date[s] of all the TCC The Department will also verify the tax compliance status of bidder	
6	Copy of Company Registration Certificate from the Registrar of Companies of all Parties indicating the names of directors or main shareholders of the company. **NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, a complete certificates which indicate the names of all Directors or main shareholders of the Company without fail**	
7	**TOTAL BID PRICE INCLUDING VAT** ***AMOUNT.....***	
8	Bidders are required to submit a copy of a valid B-BBEE Status level Verification Certificate, together with their bids, to substantiate their B-BBEE rating claims. An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less -Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE	
9 IN THE CASE OF JOINT VENTURE (JV) OR CONSORTIUM THE FOLLOWING DOCUMENTS MUST BE ATTACHED TO THE BID DOCUMENTS		
9.1	Copy of Valid Tax Clearance Certificate of all Partners- / Tax Compliance Status PIN or CSD report- The Department will also verify the tax compliance status of bidder Indicate the expiry date[s] of all the TCC of the JV partners.	
9.2	Copies of Identity Documents of all Directors / Main Shareholders of all Parties to the Joint Venture.	
9.3	Joint venture agreement duly signed by all parties	

9.4	General Revenue Receipt should be attached by all bidders who obtained hardcopy bid documentation at the Offices of the Health Department-.Original Bank Deposit slip or Electronic Transfer printout receipt reflecting the name of the Bidder and Bid Number **NB–Bidders who download the bid documentation from the E-Tender Website are exempted from this requirement**	
9.5	Copies of Company Registration Certificates from the Registrar of Companies of all Parties to a Joint Venture indicating the names of directors or main shareholders of the companies to the joint venture.- **NB The old Company Registration certificates issued in terms of the repealed 1973 Companies Act which do not show the company Directors 'names are not acceptable. All bidders are required to submit the updated Company Registration Certificates issued by the Registrar of Companies in terms of the 2008 Companies Act, that is, certificates which indicate the names of all Directors or main shareholders of the Company, without fail.**	
9.6	Valid copy of the Consolidated B-BBEE Status level verification Certificate or confirmation letter. An EME is required to submit a sworn affidavit confirming their annual total revenue of R10 MILLION or less Bidders who do not submit B-BBEE Status level Verification Certificates , a sworn affidavit or are non-compliant contributors to B-BBEE do not qualify for preference points for B-BBEEE but shall not be disqualified from the bidding process , but will score points out of price only and zero [0] points out of B-BBEE	
10	A Trust, consortium or a joint venture are required to submit a consolidated B-BBEEE Status Level Verification Certificate for every separate bid	
11	Public entities and tertiary institutions are required to submit B-BBEE Status level verification certificates together with their bids	
12	Duly completed and signed original bid documents issued by the Department should be sealed in an envelope marked: Bid number : **NWDOH 06/2026** Company Name : Closing date : **22 April 2026** Closing time : **11H00**	
13	Address and contact details:	

SIGNATURE BY BIDDER: .....

DATE: .....

health
Department:
Health
North West Provincial Government
REPUBLIC OF SOUTH AFRICA

1st Floor, Health Office Park
Private Bag X 2068
MMABATHO
2735

DEPARTMENTAL BID ADJUDICATION COMMITTEE

Enq; Mr M. Dinoko
Tel: 018 391 4150
Email: Mdinoko@nwpg.gov.za
www.health.nwpg.gov.za

1. PURPOSE:

To advertise panel of service providers for supply, delivery, installation, commissioning, and maintenance of various radiology equipment for the North West health institutions for a period of forty-eight (48) months.

2. BACKGROUND:

The Department of Health, North West Province requires the appointment of service providers for the supply, delivery, installation, commissioning, and maintenance of various radiology equipment. The North West Department of Health the North West province currently has more than twenty-nine (29) functional radiology departments and is growing. Every radiology department needs equipment for the provision of radiology services. Currently the department does not have a contract for the provision of radiology equipment and appoints service providers on an ad-hoc basis, which is tedious and time consuming.

The delivery of the above helps to promote continued radiology services by:

- Timeous performance of radiology/interventional/specialised procedures.
- Improved diagnostic imaging services.
- Improved management of patients.
- Reduction of costs in transferring patients to other hospitals.

3. EXPECTED DELIVERABLES AND OUTCOMES:

3.1. Supply, delivery, installation and commissioning of radiology equipment.
3.2. Room alterations of fixed radiology equipment to prepare for installation.
3.3. Deinstallation and decommissioning of old and existing radiology equipment.
3.4. Application of "may install" certificate from SAHPRA.
3.5. Provisioning of warranty and maintenance.
3.6. Disposal of the absolute/ redundant/ unrepairable machinery according to SAHPRA guidelines.

4. TIMEFRAME

Forty-eight (48) months.

5. SPECIAL CONDITIONS

5.1. The department reserves the right to award the bid in whole or in part. This is a term contract where the department will accept different brands and the department reserves the right to choose which brand they will order for a facility.

5.2. The Department reserves the right to conduct price negotiations, where deemed necessary before and post award.
5.3. The contract performance and compliance shall be reviewed quarterly.
5.4. All records, data and information emanating from the contract shall remain the intellectual Property of the department and must be treated as confidential by the Service Provider.
5.5. At the end of the contract period, the service provider shall make available to the Department a record of all the data and information related to the contract.
5.6. The bidder must quote for the equipment as indicated on the pricing schedule
5.7. The price charged by the bidder shall remain as is for the period of 12 months. Applications for price escalations will be considered according to formula for price escalations in SBD 3.2
5.8. The bidder to ensure that the room alterations comply with norms and standards and must be certified by the relevant authority.

6. EVALUATION OF THE BID

6.1. The submission from the service provider will be evaluated in terms of the 90/10-point system as stipulated in the Preferential Procurement Policy Framework Act (Act 5 of 2000) and the Department's Preferential Procurement Policy.
6.2. The bids will be evaluated on six (6) phases:

Phase 1: Administrative Compliance
Phase 2: Bidder Requirements
Phase 3: Functionality
Phase 4: 90/10 Preference Point System

6.3. **Phase 1: Administrative Compliance:**
6.3.1. The below administrative bidding requirements shall be complied with and required documents must be attached before consideration for further evaluation.
6.3.2. Without limiting the generality of NWDOH's other critical requirements for this Bid, bidder(s) must submit the documents listed in Table below. All documents must be completed and signed by the duly authorized representative of the prospective bidder(s). During this phase Bidders` responses will be evaluated based on compliance with the listed administration and mandatory bid requirements. The bidder(s) proposal may be disqualified for non-submission of any of the documents.

Documents	**Non-submission and partial completion will result in disqualification**	Requirements
Invitation to Bid – SBD 1	**YES**	Complete and sign the supplied pro forma document
Pricing Schedule – SBD 3.2	**YES**	Complete and sign the supplied pro forma document
Bidders Disclosure – SBD 4	**YES**	Complete and sign the supplied hard copy with the bid at the closing date and time. **(Must declare other companies that they own. Refer to Paragraph 2.3). in case of joint venture, both companies should complete separate SBD forms**

Preference Point Claim Form – SBD 6.1	**NO**	Non-Returnable of the supplied pro forma document will not lead to Disqualification. **Non-claiming of points on this form will lead to zero (0) even if supporting documentation is attached**

6.3.3 Bidders must ensure that they meet the following requirements before the bid can be awarded:

Criteria	Requirement
Tax compliance status	• Bidder must be tax compliant before the bid is awarded, • **It is compulsory for a person to register for VAT if the value of taxable supplies made or to be made, is more than R1 million**
Identity number (s) or directors	Must all be active
Business registration	Entity must be in business
Company registration with central supplier database (CSD)	Bidders must be registered as a service provider on the Central Supplier Database (CSD). If not registered must proceed to complete the registration prior to submitting your proposal. Visit https://secure.csd.gov.za/ to obtain your vendor number. Attach detailed CSD registration document **NB: Any changes in the Bidder's details on the Central Suppliers Database are the sole responsibility of the bidder**
In the service of the state status	Bid will not consider if Shareholders or directors are employed by state /government departments, municipalities, municipal entities, public entities unless **the approval from executive authority to do remunerative work outside public service and to do business with the state is submitted with the proposal.**
Tender defaulting and restriction status	Entity and directors must not be restricted.

6.4. **Phase 2: Bidder requirements**

6.4.1. The bidder must submit a copy of a valid license issued in terms of the Hazardous Substance Act No 15 of 1973 with the bid (company registration for radiology equipment) issued not older than twelve (12) months. The department can verify this on SAHPRA website should the need arise.

6.4.2. All radiation emitting units offered must be licensed and approved by the South African Health Products Regulation Authority. It must be a separate SAHPRA document from the one specified on item 6.4.1 above. **Highlight the units on offer on the list of products approved by SAHPRA.**

6.4.3. The bidder/s must complete the technical specifications template of the equipment they are bidding for **in full** for the machines they are bidding for – reference to brochure only for further explanation/elaboration.

6.4.4. Provide relevant quality assurance certificate for medical equipment (IOS13485).

NB: Failure to meet the above requirements will lead to disqualification

6.5. **Phase 3: Functionality = 100 point**

6.5.1. Only Bidders that have met the Phase 1 and 2 will be evaluated in Phase 3 for functionality.

6.5.2. Bidders are required to obtain a minimum of 75 out of 100 points to proceed to the next stage of evaluation.

6.5.3. Bidders must score at least 50% in each criteria to be considered.

6.5.4. As part of due diligence, NWDOH may conduct sites visit at a client of the Bidder (reference) for validation of the services rendered. The choice of the sites will be at the NWDOH`s sole discretion.

6.5.5. Functionality will be evaluated In accordance with the Evaluation criteria for functionality listed below

NO.	CATEGORY	FUNCTIONALITY	CRITERIA	POINTS	WEIGHT
a)	**Experience of a bidder in the supply of radiology equipment**	Bidder must have experience in the supply, delivery, installation and commissioning of fixed or portable radiology equipment. **(attach appointment letter(s) or orders ad reference letter(s) with contact details and values on the contract(s))**	Six (6) projects or more experience	30	**30**
			Five (5) projects' experience	25	
			Four (4) projects' experience	20	
			Three (3) projects' experience	15	
			Two (2) projects' experience or less or No information	0	
b)	**Financial Capacity**	Bidders are required to submit proof/evidence of financial capacity by providing **attach proof of company capability to self-fund (i.e. stamped bank statement not older than one month)**	R4 000 001 or more	30	**30**
			R3 000 001 - R4 000 000	25	
			R2 000 001 - R3 000 000	20	
			R1 000 001 – R2 000 000	15	
			Less than R1 000 000 or no submission of information or letter with no amount	0	
c)	**Technician(s) experience and qualification(s)**	Radiology technician(s) must have a minimum of five (5) years' experience in radiology equipment installation with a qualification of a diploma or degree in clinical engineering. **(attach detailed CV of each technician outlining previous installation experience of fixed and/or portable radiology equipment and copies of qualification/s)**	Four (4) technicians or more	30	**30**
			Three (3) technicians	25	
			Two (2) technicians	20	
			One (1) technician	15	
			No technician, or technician does not have relevant radiology equipment experience or qualifications.	0	
d)	**Logistical Capacity**	The bidder must own or intends to lease 1 or more x 1 ton bakkie(s) **NB: If the bakkie(s) are leased, the bidder must**	The bidder owns or intends to lease 4 x 1 ton bakkie(s)	10	**10**
			The bidder owns or intends to lease 3 x 1 ton bakkie(s)	8	
			The bidder owns or intends to lease 2 x 1 ton bakkie(s)	6	

		attach a letter of intent signed by both parties. MVL1 of each vehicle must be attached of the lessor/owner	The bidder leases owns or intends to lease 1 x 1 ton bakkie(s)	5	
			Non- Submission	0	
			Total		**100**

6.6. **Phase 5: 90/10 Preference point system**

- 90 = Price (All bid price/should be VAT inclusive)
- 10 = Specific goals (Points will be allocated according to Specific goals table below)

Specific Goals	**Procurement Transaction Preference Points allocated out of 10**
B-BBEE Status level of Contributor	**5**
1	5
2	4
3, 4, 5, 6, 7, 8 and Non-compliant contributor	0
Enterprises located in a specific province for work to be done or services to be rendered in that area (Mandatory)	**3**
Residing within the North West Province where the service is required.	3
Residing outside the North West Province	0
Designated Groups (any bid that meets 1 or more of the 5 will get the maximum points)	**2**
• Enterprises 51% owned by black women. • Enterprises 51% owned by people with disability • Enterprises 51% owned by black youth. • Enterprises 51% owned by military veterans • Registered Cooperatives within the North West department of Health database	2

NB: Points will be allocated to all those who submitted their BBBEE verification certificates/Sworn Affidavit and Confirmation of preferred address on CSD will be checked and printed by the SCM Practitioner for locality points.

6.7. **Technical Specification**

6.7.1. **LIST OF EQUIPMENT FOR: Appointment of service providers for supply, delivery, installation, commissioning and maintenance of imaging radiology equipment items for various institutions of the North West province for a period of forty-eight (48) months**

LIST OF RADIOLOGY EQUIPMENT ON TENDER		
NUMBER:	**ITEM:**	**COMMENT WHICH EQUIPMENT YOU ARE BIDDING FOR**
1.	DIGITAL C-ARM 5KW WITH FLAT PANEL TECHNOLOGY	
2.	DIGITAL C-ARM 20KW VASCULAR	
3.	CHEST X RAY UNIT DIGITAL, WITH FIXED DIGITAL ERECT BUCKY DETECTOR	
4.	DIGITAL PANOREX	
5.	DIGITAL MOBILE X-RAY MACHINE, 20KW	
6.	DIGITAL MOBILE X-RAY MACHINE, 32KW	
7.	RETROFIT DIGITAL RADIOGRAPHY SYSTEM	
8.	SCREENING MACHINE DIGITAL	
9.	FLOOR MOUNTED DDR X-RAY, WITH SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS TECHNOLOGY	
10.	ULTRASOUND MACHINE HANDHELD	
11.	XRAY PAPER PRINTER	
12.	SINGLE SLOT CR READER SYSTEM	
13.	CEILING SUSPENDED DDR X-RAY, WITH SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS	

6.7.2. **SPECIFICATION: Appointment of service providers for supply, delivery, installation, commissioning and maintenance of imaging radiology equipment items for various institutions of the North West province for a period of forty-eight (48) months.**

a) All specifications are annexure to this document.
b) All portable equipment must be delivered within 4 months of receiving the purchase order.
c) All fixed equipment must be delivered within 6 months of receiving the purchase order.
d) All equipment must have a lifespan of minimum 10 years.
e) All fixed radiology equipment will require room alterations quote according to the priced bill of quantities (BOQ) approved by the delegated officials of the North West Department of Health (facilities).
f) Room alterations includes construction preparations for the purpose of installing new radiology equipment.

7. POST AWARD CONDITIONS:

7.1. LIABILITY

7.1.1. The successful bidder shall always be liable for the acts and omissions of its employees providing services to NWDOH when acting within the course and scope of their duties and employment.

7.1.2. The successful bidder will be held responsible for any damage or loss to or of assets suffered by a NWDOH because of the bidder's Officers' negligence or willful action in the ordinary execution of their duty.

7.2. ROOM ALTERATIONS (fixed radiology equipment)

7.2.1. The bidder must conduct site inspection after receiving the purchase order of a fixed radiology equipment.

7.2.2. The bidder must quote for room alterations before he/she orders the equipment.

7.2.3. The room alterations plan must be itemized and each must be priced.

7.2.4. The room alterations plan must include the drawings.

7.2.5. The room alterations must not exceed market related prices.

7.2.6. The room alterations plan must be authorized by the Accounting Officer of the facility before the purchase order can be issued.

7.2.7. Bidder must do Occupational Health and safety file post award.

7.2.8. The bidder will only be allowed to use relevant CIDB registered sub-contractors to do any room alterations.

7.3. SAHPRA "may install":

7.3.1. The bidder must apply for SAHPRA "may install" for all radiation emitting equipment.

7.3.2. The bidder must assist the radiology department to complete the RC form on time and do follow ups.

7.3.3. For all radiation emitting equipment, no delivery of the machine must take place until the facility receives the "may install" from SAHPRA.

7.3.4. All equipment installation includes free comprehensive training in accordance with SAHPRA radiation protection rules.

7.4. UNSATISFACTORY PERFORMANCE

7.4.1. Unsatisfactory performance occurs when performance is not in accordance with the contract conditions.

7.4.2. The Departmental Official shall warn the contractor in writing that action will be taken in accordance with the contract conditions unless the contractor complies with the contract conditions and delivers satisfactory supplies or services within a specified reasonable time (7 days minimum). If the contractor does not perform satisfactorily despite the warning, the official will:

7.4.2.1. Take action in terms of its delegated powers; and

7.4.2.2. Make a recommendation to the Accounting Officer for cancellation of the contract concerned.

7.4.3. When correspondence is addressed to the contractor, reference will be made to the contract number/item number/s and an explanation of the complaint.

7.4.4. Penalties will be applied according to the specific criteria as defined in the Service Level Agreement. (post award)

7.5. **LAW TO APPLY**

7.5.1. The Contract shall in all respects be construed in accordance with the law of the Republic of South Africa, and any difference that may arise with the law of the Republic of South Africa, and any difference that may arise between the Department and the Contractor regarding the Contract, shall be settled in the Republic of South Africa.

7.5.2. The successful bidder/s is/are bound to protect the confidentiality of all data and information gathered and accessed through the contract. Information and data received and accessed through this bid can only be used to meet the objectives outlined in these specifications. (Protection of Private Information Act, (POPIA)

NB: FAILURE TO COMPLY WITH POST AWARD REQUIREMENTS WILL LEAD TO IMMEDIATE TERMINATION OF THE CONTRACT.

8. PRICE SCHEDULE

NO.	ITEM	AMOUNT / COMMENT
1	***SINGLE SLOT CR READER SYSTEM***	
1.1	Brand name of unit on offer.	
1.2	MODEL.	
1.3	Year of first Manufacture.	
1.4	**Total cost of full solution with 2-year warranty.**	
1.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
2	***DIGITAL MOBILE X-RAY UNIT, MOTORISED 20KW***	
2.1	Machine kW	
2.2	Brand name of unit and Model.	
2.3	Year of first Manufacture.	
2.4	**Total cost of full solution with 2-year warranty.**	
2.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
3	***DIGITAL MOBILE X-RAY UNIT, MOTORISED 32KW***	
3.1	Machine kW	
3.2	Brand name of unit and Model.	
3.3	Year of first Manufacture.	
3.4	**Total cost of full solution with 2-year warranty.**	
3.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	

NO.	ITEM	AMOUNT / COMMENT
4	***DIGITAL X-RAY UNIT, FLOOR MOUNTED X-RAY TUBE, SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS***	
4.1	Brand name of unit on offer	
4.2	MODEL.	
4.3	Year of first Manufacture.	
4.4	**Total cost of full solution with 2-year warranty.**	
4.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
4.6	Bidder must have capacity to do room alterations for the installation of this unit. All room alterations must be itemized and approved by the facility **CEO (comment yes/no).**	
5	***CEILING SUSPENDED DDR X-RAY MACHINE, SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS***	
5.1	Brand name of unit on offer	
5.2	MODEL.	
5.3	Year of first Manufacture.	
5.4	**Total cost of full solution with 2-year warranty.**	
5.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
5.6	Bidder must have capacity to do room alterations for the installation of this unit. All room alterations must be itemized and approved by the facility CEO (comment yes/no)	
6	***CHEST X RAY UNIT WITH FIXED DIGITAL ERECT BUCKY DETECTOR***	
6.1	Brand name of unit on offer	
6.2	MODEL.	
6.3	Year of first Manufacture.	
6.4	**Total cost of full solution with 2-year warranty.**	
6.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
6.6	Bidder must have capacity to do room alterations for the installation of this unit. All room alterations must be itemized and approved by the facility CEO **(comment yes/no)**	
7	***REMOTE CONTROL TABLE -FLUORO UNIT* (SCREENING MACHINE)**	
7.1	Brand name of unit on offer.	
7.2	MODEL.	
7.3	Year of first Manufacture.	
7.4	**Total cost of full solution with 2-year warranty.**	
7.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	

NO.	ITEM	AMOUNT / COMMENT
7.6	Bidder must have capacity to do room alterations for the installation of this unit. All room alterations must be itemized and approved by the facility CEO **(comment yes/no).**	
8	***DIGITAL C-ARM UNIT WITH FLAT PANEL TECHNOLOGY 5KW***	
8.1	Machine kW	
8.2	Brand name of unit and Model.	
8.3	Year of first Manufacture.	
8.4	**Total cost of full solution with 2-year warranty.**	
8.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
9	***DIGITAL C-ARM MACHINE, 20KW WITH VASCULAR (LARGE)***	
9.1	Machine kW	
9.2	Brand name of unit and Model.	
9.3	Year of first Manufacture.	
9.4	**Total cost of full solution with 2-year warranty.**	
9.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
10	***RETROFIT DIGITAL RADIOGRAPHY SYSTEM***	
10.1	Brand name of unit on offer	
10.2	MODEL.	
10.3	Year of first Manufacture.	
10.4	**Total cost of full solution with 2-year warranty.**	
10.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
11	***DIGITAL PANOREX***	
11.1	Brand name of unit on offer	
11.2	MODEL.	
11.3	Year of first Manufacture.	
11.4	**Total cost of full solution with 2-year warranty.**	
11.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	
11.6	Bidder must have capacity to do room alterations for the installation of this unit. All room alterations must be itemized and approved by the facility CEO (comment yes/no)	
12	***HAND HELD ULTRASOUND***	
12.1	Brand name of unit on offer	
12.2	MODEL.	
12.3	Year of first Manufacture.	
12.4	**Total cost of full solution with 2-year warranty.**	
12.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	

NO.	ITEM	AMOUNT / COMMENT
13	***XRAY PAPER PRINTER***	
13.1	Brand name of unit on offer	
13.2	MODEL.	
13.3	Year of first Manufacture.	
13.4	**Total cost of full solution with 2-year warranty.**	
13.5	**Cost for a 5-year maintenance plan after the two-year warranty period. With year 3, 4,5,6,7 added and paid annually.**	

14	WARRANTY, SERVICE AND MAINTENANCE	Yes/No
14.1	Bidders must supply a twenty-four-month warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, BUT NOT LIMITED TO, amongst others, ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling and accommodation. The two-year warranty must also include all quality checks and quality assurance requirements, including all required calibrations. A fully comprehensive preventative maintenance, service and repair plan including all costs must be included in the two-year warranty. Software updates and upgrades to be included. 98% Uptime must be guaranteed. This two-year warranty will commence after formal acceptance and handover of the equipment and successful testing and acceptance.	
14.2	The two-year warranty must be included in the unit price of the equipment. The purchase pricing schedule must be completed in full.	Yes/No
14.3	Bidders must supply an all-inclusive, fully comprehensive five-year preventative maintenance, service and repair contract covering all equipment, hardware and software. This contract would cover, but not be limited to the following: ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling, accommodation, service and maintenance. The five-year maintenance plan must also include all quality checks and quality assurance requirements, including all required calibrations. 98% Uptime must be guaranteed, **and a penalty clause will be stipulated in the service level agreement.** This contract will commence after the two-year warranty period has expired. Software updates and upgrades to be included.	
14.4	Spare parts must be available within at the most three working days – state how that will be achieved	
14.5	Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.	
15	**TRAINING**	To be condition in the tender.
15.1	User training must be provided by the successful bidder in the operation of the unit at no extra cost to the final bid price. **Please provide a detailed training plan with follow-up training.**	
16	**MANUALS**	Yes/No
16.1	Complete operator/user manuals	
16.2	DICOM conformance statements	
16.3	Quality assurance manuals	
16.4	Service manuals with full maintenance procedures, parts lists, system diagrams and electrical, mechanical and pneumatic schematics	
16.5	These manuals may be provided in electronic format	
16.6	The successful bidder shall provide updates and revisions of the manuals at no extra charge for the lifetime of the equipment	

Contacts (Technical enquiries): 1. Mr. B.K Khumalo – 060 973 3456 **bethuelkhumalo@nwpg.gov.za**

Annexure A: Currently functional radiology departments.

Item	HOSPITAL	District
1.	Bloemhof	DRRSM
2.	Brits	BOJANALA
3.	Christiana	DRRSM
4.	Delareyville	NMM
5.	Ganyesa	DRRSM
6.	Gelukspaan	NMM
7.	General De Da Rey District	NMM
8.	Itsoseng CHC	NMM
9.	Joe Morolong	DRRSM
10.	JST	BOJANALA
11.	Klerksdorp	DRKK
12.	Koster	BOJANALA
13.	Lehurutshe	NMM
14.	Lichtenburg	NMM
15.	Mafikeng Provincial	NMM
16.	Moses Kotane	BOJANALA
17.	Radiation Oncology (Klerksdorp hospital)	DRKK
18.	Nuclear Medicine (Klerksdorp hospital)	DRKK
19.	Nic Bodenstein	DRKK
20.	Phokeng CHC	BOJANALA
21.	Potchefstroom	DRKK
22.	Schweizer Reneke	DRRSM
23.	Sekhing CHC	DRRSM
24.	Swartruggens	BOJANALA
25.	Taung	DRRSM
26.	Tlhabane health centre	BOJANALA
27.	Tshepong	DRKK

Item	HOSPITAL	District
28.	Ventersdorp	DRKK
29.	Zeerust	NMM

Specification

For

BUILDING CONTRACT

Contract Period:

1. TECHNICAL SPECIFICATIONS

The successful Tenderer shall be required to repair or replace all building services and equipment as per instruction by the officer in charge in a proper and safe operating condition, as required in terms of the Contract, repair or replace part as necessary in order for all plumbing services to function properly.

PREAMBLES

For preambles refer to "General Specification of Materials and Methods to be used for Building Contracts" Draft 1 of 1998

Site view

Before submitting his tender the contractor shall visit the site, satisfy himself as to the nature, and extend of the work to be done and the value of the material contained in the building or portions of the buildings where building repairs will take place.

No claims for variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged material will be entertained.

General

The contractor will carry out the whole of the work with as little mess and noise as possible and with a minimum of disturbance to joining premises and their tenants.

He shall provide protection, provide erect, and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent or inspector.

This service will consist of the repairing/replacing of building work.

Supply all labour, travelling, plant, scaffolding and material for the execution of this service.

Notes

a) All work will be re measured after completion

b) The contractor must allow for the workers to use marked clothing so that they can be identified at all times.

c) Contractors must sign in, in the morning and sign out in the afternoons at the workshop/reception.

d) Working hours is from 7:00 to 17:00 in the afternoon. In the case of an urgent service the contractor will be granted permission to work after hours. No work may take place on weekends unless special arrangements are being made with the Inspector.

e) The contractor must supply a tax clearance certificate with the quotation.

f) The completion date for the works is less than 6 **Months** from the date of the handing over of site.

g) Delay damage for completion of the work is 11cents per R 100.00 of the offered total of the price excluding of value added tax.

h) The contractor must supply a works programme for the execution of the service at the handing over of site.

i) In the case of any delay of work the contractor must apply for the extension of time in writing within 21 days of the delay.

		Unit	Quant	Material Rate	Labour Rate	Amount
	BUILDING MAINTENANCE					
	-					
	NOTE:					
	All work in these Bills of Quantities will fall under Work Group No. 181 unless otherwise indicated.					
	EXCAVATION					
	-					
	Excavate and cart away for bases, strip footings, etc					
1	Pickable earth	m3	1			
	-					
2	Soft rock	m3	1			
3	Hard Rock	m3	1			
	FILLING					
4	Backfilling to trenches, holes, etc.	m3	1			
	STONE FILLING					
5	19mm Stone filling spread and levelled to top of concrete slabs	m3	1			
	CARTING AWAY BUILDING RUBBLE					
6	Carting away existing rubble from site to a dumping site to be located by the contractor	m3	1			
	HACKING UP PAVING, ETC AND CART AWAY					
	Hacking up existing in-situ concrete paving					
7	75mm Thick paving	m2	1			
8	100mm Thick paving	m2	1			
9	150mm Thick paving	m2	1			
	Hacking up existing in-situ reinforced concrete paving					
10	100mm Thick paving	m2	1			
11	150mm Thick paving	m2	1			
12	250mm Thick paving	m2	1			
	Tarmac paving					
13	25mm Thick paving	m2	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	Brick or precast concrete paving					
14	60mm Paving	m2	1			
15	80mm Paving	m2	1			
	Brick or precast concrete blocks					
16	450 x 450 x 50mm Thick precast concrete blocks to top of concrete slabs	m2	1			
	Stormwater channels					
17	100mm Average thick concrete water channel	m2	1			
	NEW PAVING					
	.					
	25Mpa concrete, including all necessary excavations, casting and laying in panels, formwork, softboard, and finishing smooth					
18	75mm Thick paving	m2	1			
19	100mm Thick paving	m2	1			
20	150mm Thick paving	m2	1			
	Precast concrete paving bricks, laid to manufacturers specifications					
21	60mm Thick paving	m2	1			
22	80mm Thick paving	m2	1			
	Tarmac paving, laid to manufacturers specification					
23	25mm Thick paving	m2	1			
	25Mpa concrete cast in position against earth surfaces					
24	Bases, strip footings, etc	m3	1			
25	100mm Average thick concrete water channel	m2	1			
	HACKING UP EXISTING FLOORS, SCREEDS, FLOOR COVERINGS, ETC AND CART AWAY					
26	75mm Thick concrete surface beds	m3	1			
27	100mm Thick surface beds	m3	1			
28	150mm Thick surface beds	m3	1			
29	250mm Thick surface beds	m3	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
30	25mm Thick concrete screed	m2	1			
31	Ceramic floor tiles	m2	1			
32	Vinyl floor tiles	m2	1			
33	Vinyl sheeting	m2	1			
34	Clay or terrazzo floor tiles	m2	1			
35	Timber skirtings	m	1			
36	Wooden block flooring	m2	1			
37	Suspended tongue and groove boarding	m2	1			
	SUPPLY AND LAY NEW FLOORS AND FLOOR FINISHES					
38	75mm Thick surface bed	m2	1			
39	100mm Thick surface bed	m2	1			
40	150mm Thick surface bed	m2	1			
	1:3 Cement screed finished smooth with a steel trowel					
41	38mm Thick screed	m2	1			
	Floor finishes, including all neccessary adhesive and grouting					
42	Labour & material for laying ceramic floor tiles (Allow for a PC amount of R80.00 /m2 for the price of tiles)	m2	1			
43	2,5mm Thick vinyl floor tiles	m2	1			
44	2,5mm Thick vinyl floor sheeting with welded joints	m2	1			
45	Terrazzo floor tiles	m2	1			
46	19 x 75mm Meranti skirting with 19mm Quadrant bead	m	1			
47	12mm Hardwood block flooring	m2	1			
48	19 x 75mm Tongue & Groove boarded flooring	m2	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	EXISTING WALLS AND FINISHES					
	HACKING OFF EXISTING, PLASTER, TILES, DEMOLISHING WALLS, ETC AND CART AWAY					
49	Dry wall partitioning, complete with framing	m2	1			
50	Opening up cracks in walls and leave ready for repairs	m	1			
51	Demolish 115mm face brick walls	m2	1			
52	Demolish 230mm face brick walls	m2	1			
53	Demolish 345mm face brick walls	m2	1			
54	Demolish 460mm face brick walls	m2	1			
55	Demolish 115mm plastered brick walls	m2	1			
56	Demolish 230mm plastered brick walls	m2	1			
57	Demolish 345mm plastered brick walls	m2	1			
58	Demolish 460mm plastered brick walls	m2	1			
59	Hack off plaster from walls	m2	1			
60	Hack off ceramic tiles, including plaster from walls	m2	1			
61	Hack off vinyl sheeting from walls	m2	1			
62	Remove paint from steel work and prepare for new paint	m2	1			
	SUPPLY, REPAIR AND BUILD NEW WALLS WITH FINISHES					
63	100mm Drywall partition with 9,5mm gypsum plasterboard on both sides, finished smooth	m2	1			
64	Cover opened cracks in walls, cover with chicken wire and plaster	m2	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	Face brick walls built in 1:3 cement mortar, complete with brick-force every fourth course					
65	115mm Thick wall faced both sides	m2	1			
66	230mm Thick wall faced both sides	m2	1			
67	345mm Thick wall faced both sides	m2	1			
68	460mm Thick wall faced both sides	m2	1			
	Semi-face brick walls built in 1:3 cement mortar, complete with brick-force every fourth course					
69	115mm Thick wall faced both sides	m2	1			
70	230mm Thick wall faced both sides	m2	1			
71	345mm Thick wall faced both sides	m2	1			
72	460mm Thick wall faced both sides	m2	1			
	Hard baked clay stock brick wall built in 1:3 cement mortar, complete with brick-force every fourth course, including 1:3 plaster on both sides and with primer and two coats external quality PVA paint					
73	115mm Thick wall	m2	1			
74	230mm Thick wall	m2	1			
75	345mm Thick wall	m2	1			
76	460mm Thick wall	m2	1			
	SABS approved cement brick wall built in 1:3 cement mortar, complete with brick-force every fourth course, including plaster on both sides and with primer and two coats external quality PVA paint					
77	115mm Thick wall	m2	1			
78	230mm Thick wall	m2	1			
79	345mm Thick wall	m2	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
80	460mm Thick wall	m2	1			
	1:3 Cement plaster on walls finished with a steel trowel					
81	12mm On walls	m2	1			
	Ceramic wall tiles, including all neccessary adhesive and grouting					
82	Labour & material for fixing ceramic wall tiles (Allow for a PC amount of R80.00 /m2 for the price of tiles)	m2	1			
	Vinyl sheeting, including all neccessary adhesive					
83	1,6mm Thick vinyl sheeting to walls, including welding of all joints	m2	1			
	PAINTING					
	-					
	NOTE:					
	The following rates are for one coat paint only					
	Prepare surfaces and paint one coat of:					
84	High gloss enamel paint	m2	1			
85	Eggshell enamel paint	m2	1			
86	Exterior quality PVA paint	m2	1			
87	Double velvet paint	m2	1			
88	Acrylic roof paint	m2	1			
89	Under coat	m2	1			
90	Primer	m2	1			
91	Aluminium paint	m2	1			
92	Bonding liquid	m2	1			
93	Bitumen paint	m2	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	EXTERNAL SITE WORK					
	Standard pre-fabricated concrete walls, complete with poles					
94	1,2m High	m	1			
95	1,8m High	m	1			
96	2,0m High	m	1			
97	2,4m High	m	1			
	Standard pre-fabricated concrete poles for concrete walls					
98	For 1,2m high fence	no	1			
99	For 1,8m high fence	no	1			
100	For 2,0m high fence	no	1			
101	For 2,4m high fence	no	1			
	Standard steel poles for Diamond mesh fencing					
102	For 1,2m high fence	no	1			
103	For 1,8m high fence	no	1			
104	For 2,0m high fence	no	1			
105	For 2,4m high fence	no	1			
	50 x 50 x 2.5mm Diamond mesh fencing, including straining wires, etc					
106	For 1,2m high fence	m	1			
107	For 1,8m high fence	m	1			
108	For 2,0m high fence	m	1			
109	For 2,4m high fence	m	1			
	Sundries					
110	Standard pre-fabricated concrete panels for pre-fabricated fencing	no	1			
111	230mm Wide face brick brick-on-edge window sill laid sloping	m	1			
112	230mm Wide semi-face brick brick-on-edge window sill laid sloping	m	1			
113	230mm Wide terrazzo window sill laid sloping	m	1			
114	175 x 15mm Thick fibre-cement window sill laid sloping	m	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
115	150mm Wide glazed tile sill	m	1			
116	Replace DPC to window sills, including re-instating sill	m	1			
	WINDOWS					
	Supply and fit the following, including putty and any necessary scaffolding, etc:					
117	3mm Clear float glass	m2	1			
118	4mm Clear float glass	m2	1			
119	6mm Clear float glass	m2	1			
120	4mm Obscure glass	m2	1			
121	6mm Obscure glass	m2	1			
122	6mm Clear safety glass	m2	1			
123	8mm Clear safety glass	m2	1			
	Mirrors					
124	460 x 600 x 5mm Mirror fixed with screws and dome-headed screws.	no	1			
	SABS quality approved window fittings					
125	Chromium-plated window handle	no	1			
126	Chromium-plated window peg stay	no	1			
127	Chromium-plated window sliding arm	no	1			
128	Chromium-plated window spring catch	no	1			
129	Chromium-plated window peg for stay	no	1			
	Sundries					
130	Standard type steel pelmets complete with 2 rails and runners at 100mm centres	m	1			
131	Standard type curtain rails	m	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
132	Mark "C" vertical blinds	m2	1			
133	SABS approved quality tracks for vertical blinds	m	1			
134	Double Kirsh tracks	m	1			
135	Single Kirsh tracks	m	1			
136	SABS approved quality medical aluminium curtain tracks with 20 runners per m.	m	1			
137	Extra over for bends for medical tracks	no	1			
138	Extra over for stopped ends for medical tracks	no	1			
	BURGLAR PROOFING					
139	Replace existing steel burglar proofing with burglar proofing formed of 12mm diameter bars forming brick pattern with openings size 230 x 100mm	m2	1			
140	Replace existing steel burglar proofing with burglar proofing formed of 25 x 5mm flat section bars forming openings size 230 x 150mm	m2	1			
141	25 x 25 x 1,6mm Thick framing for burglar proofing	m	1			
142	32 x 32 x 2mm Thick framing for burglar proofing	m	1			
	PRESSED STEEL DOOR FRAMES					
	Break out existing door frames and replace with the following new frames, including building up brickwork or facings, or repairing of plaster and matching paint on frames and plastered walls.					
143	Single door frame size 762 x 1981mm high	no	1			
144	Single door frame size 762 x 2032mm high	no	1			
145	Single door frame size 813 x 2032mm high	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
146	Single door frame size 762 x 1981mm with 305mm high fanlight	no	1			
147	Single door frame size 762 x 2032mm with 305mm high fanlight	no	1			
148	Single door frame size 813 x 1981mm with 305mm high fanlight	no	1			
149	Double door frame size 1511 x 2032mm high	no	1			
150	Double door frame size 1613 x 2032mm high	no	1			
151	Double door frame size 1511 x 1981mm with 305mm high fanlight	no	1			
152	Double door frame size 1613 x 1981mm with 305mm high fanlight	no	1			
	SINGLE TIMBER DOORS					
	Take off existing timber doors and replace with the following new doors, including fitting new locks and other hardware, including painting or varnishing to match existing.					
	Hollow core door with hardboard on both sides, size:					
153	762 x 1981mm High	no	1			
154	762 x 2032mm High	no	1			
155	813 x 2032mm High	no	1			
	Semi-solid door with Sapele veneer on both sides, size:					
156	762 x 1981mm High	no	1			
157	762 x 2032mm High	no	1			
158	813 x 2032mm High	no	1			
	Solid core door with Sapele veneer on both sides, size:					
159	762 x 1981mm High	no	1			
160	762 x 2032mm High	no	1			
161	813 x 2032mm High	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	Meranti framed and ledged door with tongue & grooved boarding to one side, size:					
162	762 x 1981mm High	no	1			
163	762 x 2032mm High	no	1			
164	813 x 2032mm High	no	1			
	Meranti framed, ledged and braced open back door with tongue & grooved boarding to one side, size:					
165	762 x 1981mm High	no	1			
166	762 x 2032mm High	no	1			
167	813 x 2032mm High	no	1			
	Meranti framed, ledged and braced flush back door with tongue & grooved boarding to one side and 4mm plywood to other side, let into framing, size:					
168	762 x 1981mm High	no	1			
169	762 x 2032mm High	no	1			
170	813 x 2032mm High	no	1			
	Meranti framed, ledged and braced door with tongue & grooved boarding to both sides, size:					
171	762 x 1981mm High	no	1			
172	762 x 2032mm High	no	1			
173	813 x 2032mm High	no	1			
	Sundries					
174	1,5mm Thick vinyl sheeting to doors (Both sides)	m2	1			
175	Rubber edges to doors	m	1			
	DOUBLE TIMBER DOORS					
	Take off existing timber doors and replace with the following new doors, including fitting new locks and other hardware, including painting or varnishing to match existing.					
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	Semi-solid door with Sapele veneer on both sides, size:					
176	1511 x 2032mm High overall	no	1			
177	1613 x 2032mm High overall	no	1			
	Solid core door with Sapele veneer on both sides, size:					
178	1511 x 2032mm High overall	no	1			
179	1613 x 2032mm High overall	no	1			
	Meranti framed and ledged door with tongue & grooved boarding to both sides, size:					
180	1511 x 2032mm High overall	no	1			
181	1613 x 2032mm High overall	no	1			
	Meranti framed, ledged and braced open back door with tongue & grooved boarding to one side, size:					
182	1511 x 2032mm High overall	no	1			
183	1613 x 2032mm High overall	no	1			
	Meranti framed, ledged and braced flush back door with tongue & grooved boarding to one side and 4mm plywood to other side, let into framing, size:					
184	1511 x 2032mm High overall	no	1			
185	1613 x 2032mm High overall	no	1			
	Meranti framed, ledged and braced door with tongue & grooved boarding to both sides, size:					
186	1511 x 2032mm High overall	no	1			
187	1613 x 2032mm High overall	no	1			
	PRESSED STEEL COMBINATION DOOR & FRAME					
	Break out existing door with frame and replace with the following new, including building up brickwork or facings, or repairing of plaster and matching paint on frames, doors and plastered walls.					
188	Single door & frame size 762 x 2032mm high	no	1			
189	Single door & frame size 813 x 2032mm high	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
190	Double door & frame overall size 1511 x 2032mm high	no	1			
191	Double door & frame overall size 1613 x 2032mm high	no	1			
	GARAGE DOORS					
	Remove existing door with frame and replace with the following new, including any necessary paint:					
192	Standard aluminium single roll-up door	no	1			
193	Standard single mild steel tip-up door	no	1			
194	Standard single mild steel tip-up door with baked enamel finish.	no	1			
	SECURITY GATES					
	Break out existing security door with frame and replace with the following new built-up security doors & frames, including fitting new lock and paint on gates and frames.					
195	813 x 2032mm High single security gate formed of 32 x 32 x 2mm square tubing framework, gate with framework and 2 horizontal middle rails, the whole of the gate filled in with 12mm diameter vertical steel bars at 100mm centres, including heavy duty double action lock with 3 keys and fitted with 2 heavy duty hinges.	no	1			
196	1000 x 2032mm High double security gate formed of 32 x 32 x 2mm square tubing framework, each gate with framework and 2 horizontal middle rails, the whole of the gate filled in with 12mm diameter vertical steel bars at 100mm centres, including heavy duty double action lock with 3 keys and fitted with 2 heavy duty hinges, one gate fitted with 2 heavy duty barrel bolts with keeps fitted to brickwork or concrete.	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	ALUMINIUM AND GLASS DOORS					
	Remove existing aluminium glass door and replace with new, including new lock and hinges to match existing					
197	860 x 2050mm High door with safety glass	no	1			
	ALUMINIUM AND GLASS SLIDING DOORS					
	Remove existing aluminium glass sliding door and replace with new, including new lock and hinges to match existing					
198	1600 x 2050mm High sliding door with safety glass	no	1			
199	2000 x 2050mm High sliding door with safety glass	no	1			
200	3000 x 2050mm High sliding door with safety glass	no	1			
	CEILINGS					
	Remove existing ceilings and replace with the following new ceilings complete with cover strips.					
201	6mm Fibre-cement ceiling	m2	1			
202	6,4mm Gypsum plasterboard	m2	1			
203	Accoustic ceiling boards in existing suspension grid	m2	1			
204	Wrought SAP tongue and grooved boarding to trusses	m2	1			
205	20mm 1:5 Cement plaster to concrete slabs	m2	1			
206	38 x 38mm SA pine brandering at 400mm centres	m2	1			
207	75mm Half-round gypsum cornices	m	1			
208	600 x 600mm Metal trap doors	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
	LOCKS, KEYS AND HINGES					
	NOTE:					
	1. All ironmongery to be used is to be manufactured under the ISO 9002 standard.					
	2. A compliance certificate that the ironmongery has been manufactured under the ISO 9002 standard may be required to be furnished if so requested.					
	Remove existing and replace with:					
209	Type 1022G night latch with 2 keys	no	1			
210	Type CZ80941 indicator bolt	no	1			
211	Type L-224-78SS cylinder mortice upright lock with 2 keys	no	1			
212	Type 2261-76SS four lever upright mortice lock with 2 keys	no	1			
213	Type 2295-76SS two lever upright mortice lock with 2 keys	no	1			
214	50mm Type UN335000000100 brass padlock with 28mm standard brass shackle	no	1			
215	Type 452-38NP cupboard cylinder	no	1			
216	Type AL 5516AS door pull handle	no	1			
217	Type CZ682-24SC standard door furniture	no	1			
218	100mm Heavy duty steel door hinges	Pair	1			
219	100mm Aluminium with stainless steel door hinges	Pair	1			
220	Type 744 heavy duty door closer	no	1			
221	Type 2x18SC double cylinder pin tumbler	no	1			
222	Type AL8721AS hat and coat hook	no	1			
	Carried to Section Summary				**R**	

		Unit	Quant	Material Rate	Labour Rate	Total Amount
223	Type AL 8730AS door stop	no	1			
224	Type AL 5063E-06ASE10 bathroom indicator sign	no	1			
	ROOFS					
	Take off and remove existing and replace with the following:					
225	0,6mm Thick galvanised corrugated sheet iron complete with roofing screws.	m2	1			
226	0,6mm Thick galvanised IBR sheet iron complete with roofing screws.	m2	1			
227	Cement roof tiles to match existing profile and colour	m2	1			
228	Clay roof tiles to match existing profile and colour	m2	1			
	Slate roof tiles including water proofing under slate to match existing	m2	1			
229	50 x 75mm Sawn SA pine purlins	m	1			
230	38 x 114mm Sawn SA pine wall plates.	m	1			
231	38 x 114mm Sawn SA pine rafters	m	1			
232	38 x 38mm Sawn SA pine brandering	m	1			
233	50 x 152mm Sawn SA pine tie beams	m	1			
234	4mm Thick Derbigum waterproofing with 10 year guarantee.	m2	1			
235	0,6mm Thick galvanised valley flashing	m	1			
236	0,6mm Thick galvanised ridging	m	1			
237	Seal all edges of corrugated iron or IBR roofing sheets with Derbigum 195 roof sealer and replace all loose roofing screws	m	1			
238	10mm x 225mm Fibre-cement fascia boards, screwed with two approved brass screws to ends of roof trusses complete with cover strips.	m	1			

	Carried to Section Summary				**R**	4 890
		Unit	Quant	Material Rate	Labour Rate	Total Amount
239	8mm Fibre-cement barge boards, screwed with two approved brass screws to ends of purlins complete with cover strips.	m	1			
240	125 x 150mm Galvanised sheet iron gutter, complete with corners, stopped ends, outlets and with gutter brackets at 900mm centres.	m	1			
241	75mm Diameter galvanised sheet iron downpipe, complete with, offsett, shoes and brackets at 900mm centres.	m	1			
	SUBTOTAL					
	VAT		15%			
	CARRIED TO SECTION SUMMARY					

	RATES FOR TRAVELLING AND LABOUR					
	Travelling:					
	NOTES:					
	The distance that will be paid for will be for a return journey measured from the particular regional office to the institution where the service has to be performed.					
	Rates are per kilometre					
1	Travelling rate	km				A A Rates
	LABOUR:					
	NOTES:					
	An artisan is defined as a fully qualified artisan.					
	Semi-skilled labour is defined as a person who is entitled under Industrial Council Regulations to execute certain functions in the trade.					
	Unskilled labour is defined as a person who is employed to perform such duties as excavations, hacking up of areas and other similar functions.					
2	Artisan Labour(Per hour)	Hour				
3	Semi-skilled Labour (Per hour)	Hour				
4	Unskilled Labour (Per hour)	Hour				
	Call-out:					
	NOTES:					
	A call-out fee is a fee which is to be charged when the contractor is called out by the inspectorate to inspect problem areas and for quotations (not defective work) and may be charged along with travelling as previously itemized.					
5	Call-out charge	Item				
	-					
	-					

	SUBTOTAL					
	VAT		15%			
	CARRIED TO SECTION SUMMARY					

MARK-UP ON NON SCHEDULED PRICES – all claims for non-scheduled labour, services and materials used shall be accompanied by an itemised suppliers invoice or itemised priced delivery note to Contractor.

A mark-up of 15% will be applicable on all non-scheduled item as mentioned above for the duration of this Contract.

Al travelling rates will be calculated according to the AA rates for the specific month

ESCALATION FORMULA

SPECIAL CONDITIONS OF TENDER FOR CONTRACT PRICE ADJUSTMENT APPLICABLE TO MECHANICAL WORK AND FOR EXTENDED SITE FACILITIES

SPECIAL CONDITIONS OF TENDER FOR CONTRACT PRICE ADJUSTMENT APPLICABLE TO BUILDING WORK

(IMPORTANT NOTE: Base date shall be taken from date of closure of tender)

A. CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)

1.1 Notwithstanding any provision to the contrary contained elsewhere, fluctuation in costs for any reason whatsoever shall be for the contractor's account: provided that the contract amount shall be subject to adjustment by the sum of the amounts calculated in respect of each payment certificate in accordance with the conditions hereinafter described.

1.2 Limitation on application of CPAP:

1.3 The CPAP are intended to apply to any building contract where the value exceeds R500 000.00 and to direct specialist contracts related to such building contracts.

1.4 In the case of electrical and mechanical engineering contracts which are not related to any other contract, the CPAP are intended to apply where the value exceeds R50 000.00 and the contract period exceeds 6 months.

1.5 The term 'value' shall mean the contract amount.

2. For the purpose of these conditions.

2.1 'Work groups' shall mean those stated in the work group table in 14 hereof and/or provided for in 4 hereof:

2.2 'Index' shall mean any one of those published by the Department of Statistics in News Release P22 and/or one calculated in accordance with the provisions of 4 hereof, where regional indice are published in respect of Industrial Council agreement areas the indices applicable to the area in which the building site is situated shall apply in areas for which indices are not so published, indices in respect of the nearest areas shall apply:

2.3 'Value of work executed' shall mean the gross value of work duty executed before deduction of retention;

2.4 'Value of work subject to adjustment' shall exclude.

2.5 Day-work calculated on current costs;

2.6 Credit allowed by the contractor for old material arising from demolitions and other work;

2.7 Materials supplied against P.C. amounts which shall be adjusted as provided for in the contract;

2.8 Equipment in specialist work and imported material, as listed in 13 hereof provided that;

2.9 Subject to the provisions and exceptions contained in 2.13 to 2.23 hereof, it is

2.10 Designated as such in the tender enquiry documents.

2.11 Priced separately; and

2.12 Adjusted on the basis of net cost to the contractor and substantiated by satisfactory documentary evidence or by means of recognized formulas and indices stated in the enquiry documents;

2.13 It is limited to

2.16 In respect of other work, imported material at the discretion of the **Project Manager,**

2.17 fluctuations in the rate of exchange on imported equipment, or material, where such equipment or material has been excluded from adjustment under 2.9 and 2.13 hereof, shall be calculated from either the date of the local importer's tender or, in the case of a contractor being the importer, seven days prior to the date of such contractor's tender, to a date seven days after receipt by the importer's bank of the negotiable bill of lading or exporter's invoice, and thereafter fluctuation in the rate of exchange shall not be for the account of the Department and the following information shall be provided at the time of tendering:

2.18 Type of equipment or material,

2.19 Country of origin,

2.20 Currency of official rate of exchange ruling on the date applicable to the tender as defined above

2.21 The free on board of cost, insurance, freight value of the imported equipment or material expressed in rands: and

2.22 A copy of the local importers tender and

2.23 In the case of lifts, hoist and escalators the exceptions under **EXPLANATORY NOTES AND EXCEPTIONS** in the table contained in 14 hereof shall apply but the contractor may choose to be protected against fluctuations in the rate of exchange on imported equipment in which event he shall state in his tender the information required under 2.17 hereof, and adjustment in terms of 3.2 hereof shall then be calculated on 85% of the total value of such equipment (that factor being applied in addition to the constant of 0,85 contained in the formula).

2.24 Work executed by local authorities or other public bodies which shall be adjusted where necessary on the basis of net costs to the Contractor substantiated by satisfactory documentary evidence: and

2.25 Variations priced at current prices or based on current costs;

2.26 Contractor's profit on provisional sums, etc. where the profit is priced separately and is adjustable pro-rata to the final value of such sums;

2.27 'value of work subject to adjustment' shall include

2.28 variations priced at or based on contract prices;

2.29 variations not based on contract prices but adjusted back to the base month price levels by means of the indices;

2.30 variations not based on contract prices but which, by agreement, are subject to adjustment with a base month applicable to each such variations; and

2.31 work carried out by nominated subcontractors which, unless tendered for or priced at fixed prices, shall be subject to adjustment with a base month applicable to each subcontract:

2.32 'base month' shall mean:

2.33 the calendar month prior to that during which tenders closed in respect of tenders closing up to and including the 15th of the month; or

2.34 the calendar month during which tenders closed in respect of tenders closing after the 15th of the month.

2.35 'amount of adjustment' calculated in terms of 3.2 hereof shall be

2.36 separately shown in a statement supporting any certificate issued in accordance with the Conditions of Contract:

2.37 the net amount to be added to or deducted from the contract amount:

2.38 similarly net in respect of that portion applicable to work carried out by nominated subcontractors and, irrespective of whether or not the Conditions of Contract provide for a cash discount to the Contractor in respect of amounts payable to nominated sub-contractors, shall not be subject to any such discount:

2.39 subject to the same conditions in respect of retention, etc as any other moneys due to or by the contractor in terms of the Conditions of Contract.

3. Used to calculate the amount of adjustments by application of the following formula;

$$A = 85\% \, V \left(\frac{IE}{IO} - 1 \right)$$

Where:

A = the amount of adjustment in respect of each work group

0.85 = a constant which provides for a 15% non adjustable element

V = the value of work executed as defined in 2.3 hereof, in any work group during the valuation period

IE = the value of the index as defined in 2.2 hereof, applicable to each work group for:

(a) the month prior to that during which the certificate in date in respect of certificates issued up to and including the 15th of the month; or

(b) the month during which the certificate is date in respect of certificates issued after the 15th of the month

IO = the value of the index as defined in 2.2 hereof, applicable to each work group for the base month as defined in 2.32 hereof.

4. In exceptional cases where work clearly does not fall within a defined work group, the component sub-indices and their weights for the calculation of an index or indices applicable to such work shall be stated in the tender enquiry documents. Such exceptional indices shall be

4.1 the sum of the products of the weights and the respective sub-indices for the applicable month after each sub-indices has been rebased to the base month;

4.2 rounded off to the first decimal;

4.3 calculated using sub-indices for one particular month; where only quarterly figures are available they shall apply for the mid-month of the relevant quarter and two succeeding months;

4.4 on a regional basis where the necessary information exists:

4.5 calculated on the basis of equal proportions of actual and statutory labour costs except in such cases where it is stated that statutory labour costs only are to be used, and the sub-indices to be used shall be

4.6 In the case of labour in the building industry, in respect of actual labour costs, the sum of the 'Average Actual Wage Rate per Hour' and 'Other Statutory Costs of Labour' as

published by the Department of Statistics in News Release P18 or alternatively, the 'index of Actual Costs' as published in the same publication; and in respect of statutory labour costs, the 'All-inclusive Statutory Labour Cost per Hour' or, the 'index of Statutory Labour Costs' as compiled by the Steel and Engineering Industries Federation of South Africa; and

4.7 In the case of labour in the engineering industry, in respect of actual labour costs, the 'Actual Costs of Labour' as published by the Department of Statistics in News Release P21: and in respect of statutory labour cost the 'Statutory Labour Costs' as compiled by the Steel and Engineering Industries Federation of South Africa; and

4.8 Calculated using material and plant sub-indices from the 'Wholesale-Price Indexes' as published by the Department of Statistics in News Release P16, tables 1.1.2.1 or 2.2: or where suitable sub-indices are not so published, using other relevant figures.

5. The value of unfixed material to be included in any payment certificate shall be

5.1 allocated to work groups as described in 3.1 hereof:

5.2 added to the value of work executed in the same work group; and

5.3 adjusted together with the value of work executed as described in 3.2 hereof.

6. Should any payment certificate be issued at such an interval after a preceding payment certificate that more than index, value, subsequent to the last one used for the preceding payment certificate, has occurred up to and including the index value applicable to the date of issue of the payment certificate at the end of the interval, the amount of adjustment in respect of such interval shall be calculated by using the average of all the index values for each work group which has occurred during such interval.

7. Adjustments in respect of payment certificates issued after the contractual date for completion as Defined in 7.2 hereof shall notwithstanding the provision of 3 and 4 hereof, be dealt with as set out hereunder:

7.1 For the purposes of the clause-

7.2 'contractual date for completion' means the date for practical completion/first delivery of the works or any authorized extension thereof in terms of the conditions of contract: Provided that if the date of actual completion is earlier, such earlier date shall be deemed to be the contractual date for completion

7.3 'date of actual completion' means the date acknowledge by the Architect/Director/Engineer as that on which practical completion/first delivery of the works occurred:

7.4 'work completion in time' means work completed up to the contractual date for completion as defined in 7.1.1 hereof;

7.5 'work completed late' means work completed after the contractual date for completion as defined in 7.1.1 hereof;

7.6 'net value of work' means the value of work subject to adjustment (including the revaluation, correction and updating of such value) after deduction of the value of such work included in previous payment certificates;

7.7 the net value of work included in each payment certificate issued after the contractual date of completion as defined in 7.1.1 hereof shall be allocated on the basis of a reasonable estimate to categories of work completed in time and work completed late; and

7.8 the values of work and amount of adjustment in respect of the main contractor and each nominated subcontractor shall be separately calculated using the base date appropriate to each and excluding values and amounts of nominated subcontracts from calculation in respect of the main contract.

7.9 The amount of adjustment in respect of the value of work completed in time shall be calculated as a single sum of each payment certificate by the application of the following formula:

$$A = V \times [Af/Vf]$$

Where

A = the amount of adjustment to be paid to or recovered from the Contractor.

V = the net value of work referred to in this subclause

Vf = the total value of the work subject to adjustment in the main contract or nominated subcontract estimated at the contractual date for completion as defined in 7.2 hereof, and

Af = the theoretical amount of adjustment relating to V1calculated in terms of 3 and 4 hereof using index values (1.) applicable to the contractual date for completion as defined in 7.2 hereof.

7.10 The amount of adjustment in respect of work completed late shall be calculated as a single sum for each payment certificate by the application of the following formula:

A = V x [Af/Vf] x 0.55

Where the various symbols have the same meaning as those ascribed to them in 7.2 hereof.

8. The amount of adjustment in terms of 3.2 hereof shall be calculated and included in the next payment certificate following the publication of all the indices required for any one month's adjustment:

9. The Engineer shall make any corrections to the adjustments effected in interim payment certificates as result of

arithmetical errors in the calculation of the adjustment;

incorrect allocation of value of work to work groups;

revision of an index value by the publishing authority: or

use of an incorrect index value.

10. If at any time prior to the issue of the final payment certificate, adjustment is not possible because of undue delay in, or cessation of the publication of the indices

10.1 such parts of this clause shall be implemented as will enable the amount of adjustment to be readily calculated upon resumption of publication of the indices.

10.2 The amount of adjustment shall be calculated by the Engineer for inclusion in payment certificates during such period of delay on a fair and reasonable basis; and

10.3 If the publications of the indices is resumed at any time prior to the issue of the final certificate, the correct indices shall be substituted for those used and adjustments recalculated.

11. These price adjustment provisions from reimbursement for price fluctuations on an average basis. The proportions and indices use are averages and are not intended to represent any particular contract.

12. The work group indices generally include indirect taxes such as excise duty and sales tax to the extent stated in News Release P22 and will automatically reflect fluctuations in such items.

13. Further to clause 2.8 the materials and/or major equipment specifically excluded from the price adjustment formula are listed hereafter and shall be subject to adjustment by the net amount of variation occurring after the date of tender. The price adjustment shall be substantiated by satisfactory documentary evidence or by means of recognized formula and indices to each particular item.

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1. NAME OF THE BID

APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

LIST OF RADIOLOGY EQUIPMENT ON BID

NUMBER:	ITEM:
1.	DIGITAL C-ARM 5KW, WITH FLAT PANEL TECHNOLOGY
2	DIGITAL C-ARM 20KW VASCULAR, LARGE, WITH FLAT PANEL TECHNOLOGY
3	CHEST X RAY UNIT DIGITAL, WITH FIXED DIGITAL ERECT BUCKY DETECTOR
4.	PANOREX MACHINE, DIGITAL
5	DIGITAL MOBILE X-RAY MACHINE, 20KW
6	DIGITAL MOBILE X-RAY MACHINE, 32KW
7	RETROFIT DIGITAL RADIOGRAPHY SYSTEM
8	SCREENING MACHINE DIGITAL
9	FLOOR MOUNTED DDR X-RAY, WITH SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS TECHNOLOGY
10	ULTRASOUND MACHINE HANDHELD
11	XRAY PAPER PRINTER
12	SINGLE SLOT CR READER SYSTEM
13	CEILING SUSPENDED DDR X-RAY, WITH SUPINE BUCKY TABLE , VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS

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APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

DIGITAL MOBILE C-ARM FLUORO MACHINE 5KW

Item	DIGITAL MOBILE C-ARM FLUORO MACHINE 5KW	SPECIFICATIONS	Complies Yes/No	Comment (detailed answer where requested)
		A - Modality Details		
1		LIGHTWEIGHT DIGITAL MOBILE FLUORO C-ARM SYSTEM WITH FLAT PANEL DETECTOR		
1.1		C-arm system with easy movement, radiation indicator, handswitch, footswitch and a footbrake to lock the system.		
1.2		The C-arm must have a motorised vertical movement of minimum 400 mm.		
1.3		The C-arm must have a horizontal range of minimum 200mm.		
1.4		The C-arm must have an orbital movement range of approximately 135°. State orbital movement values (- ° value to + ° value).		
1.5		The C-arm system must have a rotation/angulation around the horizontal of at ± 220°.		
1.6		The unit offered must have a swivel range (panning) of minimum 10 degrees in each direction (WIG/WAG).		
1.7		The C-arm system must have a focus to image receptor distance of minimum 90 cm.		

1.8		C-arm vertical free space minimum 80cm.		
1.9		C-arm depth minimum 65cm.		
1.10		Ultra-compact foot switch with rear wheel steering,including push bar and handles for easy maneuverability and positioning of the stand.		
1.11		Patented steering & braking lever with parallel movement of the mobile stand in all directions.		
1.12		Position memory function.		
1.13		Counterbalanced C-arm equipped with effective brakes		
1.14		Colour coding of C-arm movements for ease of C-arm movements		
2		**X-RAY TUBE AND GENERATORS**		
2.1		Generator should be single phase, high frequency, microprocessor-controlled with a nominal output of 5kW.		
2.2		The X-ray tube must have a rotating anode.		
2.3		Dual focus. Dimensions for each focus are stated in supporting documents.(We prefer ± 0.3 / 0.6 mm)		
2.4		Anode heat dissipation: min 200kHU.		
2.5		The tube shall be able to work with full output of the generator and shall have an overload protection.		
3		**OPERATING VALUES**		
3.1		Pulsed fluoroscopy		
3.2		kVp range: Minimum 40kV. State min and max.		
3.3		Fluoro mA range: (standard is from 1.5mA up to 100 mA).		
3.4		Pulse width for pulsed fluoroscopy: A minimum of 5ms.		
3.5		Variable pulse rate range: state in pulses per second.		
3.6		Digital radiography (snapshot).		
3.7		Programmable Radiography mA		
3.8		Radiography mAs range		

3.9		Boost Fluoro exposure settings		
3.10		Automatic Brightness Control (ABC) for Fluoro image		
4		**FILTERING AND COLLIMATOR SYSTEM**		
4.1		Total filtration: must include minimum 3mm Al equivalent.		
4.2		Radiation dose.		
4.3		Collimator System:		
4.4		Motorized Collimator.		
4.5		Collimator rotation should be ± 90°.		
4.6		Circular/ Rectangular opening with lead iris leaves.		
4.7		Asymetric slot collimator.		
4.8		Must be able to adjust collimation without emitting radiation.		
4.9		Minimum of two shutters. The shutters shall be able to rotate and shall be independently adjustable.		
5		**FLAT PANEL DETECTOR SYSTEM**		
5.1		Amorphous silicon photodiode or better.		
5.2		TFT technology: Scintillator to be Cesium Iodide.		
5.3		Detector Field size should be minimum 20cm x 20cm.		
5.4		Pixel size smaller than 190µm.		
5.5		Detector matrix minimum 1,000 x 1,000 pixels (1k x 1k).		
5.6		Three selectable zoom sizes must be included.		
5.7		Dynamic range/ Gray scale: (standard is 14 bit)		
5.8		Laser localiser integrated in the detector housing.		
6		**TELEVISION SYSTEM AND DISPLAY TELEVISION MONITOR AND SUPPORT STAND**		
6.1		Two high-resolution and high-brightness flatscreen LCD colour monitors integrated.		

6.2		Screen size: minimum 2 x 19"		
6.3		Maximum Resolution: minimum 1,024 x 1,024 pixels.		
6.4		Possible to view images at 170 degrees angles (horizontal and vertical).		
6.5		Brightness: should be minimum 600 cd/m².		
7		**USER INTERFACE**		
7.1		Intuitive icons for easy use		
7.2		Touch screen control panel		
7.3		User friendly		
7.4		One monitor must have touch screen capabilities		
7.5		Ergonomics and light weight.		
7.6		Able to do patient data input and other user input		
7.7		Programmable setup of the interface must be possible.		
7.8		Digital but able to be manually manipulated		
8		**DIGITAL IMAGE PROCESSING**		
8.1		Real-Time Processing Functions.		
8.2		Recursive filter.		
8.3		Stack filter ('Last Image Hold') memory for at least six images.		
8.4		Edge enhancement.		
8.5		Windowing and step windowing.		
8.6		Digital image rotation and reversal without emitting radiation.		
8.7		Grayscale inversion.		
8.8		Digital shutters must be available.		
8.9		Application-Oriented Anatomical Programs to be available eg Bone, Heart, Abdomen, Endo.		
8.10		Software imaging programs for Motion, Metal, Soft, Large Patient.		
8.11		Image Acquisition.		
8.12		Autosave.		

8.13		Cine loop with auto-playback.		
8.14		Sequential image storage and display.		
8.15		State all available frame rates.		
8.16		Start, stop and replay rate controls		
8.17		Grayscale: (standard is14 bit) state		
9		**POSTPROCESSING FUNCTIONS**		
9.1		Edge enhancement		
9.2		Zoom: 3 levels		
9.3		Image rotation		
9.4		Windowing		
9.5		Grayscale inversion		
9.6		Image cropping (digital shutters)		
9.7		Digital measurement functions (distance/angle)		
9.8		Digital Memory		
9.9		Storage capacity for minimum of 20 000 mages.		
9.10		Memory matrix: minimum 1,024 x 1,024 pixels		
9.11		Image matrix: minimum 1,024 x 1,024 pixels.		
9.12		Digital image processing		
10		**DATA ORGANIZATION**		
10.1		Patient-based data management.		

10.2		Pre-registration via DICOM Worklist (PACS/RIS).		
10.3		Manual input for emergency registration		
11		**ARCHIVING**		
11.1		Must be possible to incorporate into hospital PACS network/PACS.		
11.2		DICOM compatible (latest version)		
11.3		Primary Capture mode.		
11.4		Available DICOM Classes.		
11.5		Storage Class incl. multiframe capability and Storage Commitment		
11.6		Print Class		
11.7		Interface DICOM: "Send as SCU"		
11.8		Worklist Class incl. Modality		
11.9		Modality Performed Procedure Step (MPPS):		
11.10		Query/Retrieve		
11.11		Verification		
11.12		A "Conformance Statement" for all DICOM interfaces		
11.13		Video printer (option): paper and /or film must be included		
11.14		USB port		
11.15		Export formats: DICOM, TIFF, zipped format (state size), JPEG,Multimedia (AVI)		
11.16		Automatic DICOM viewer software must be written on USB device when images are exported		
11.17		The storage capacity and number of images storage capacity on the unit (min 20 000)		
12		**ELECTRICAL REQUIREMENTS AND OTHER**		
12.1		The offered system must function off a standard 220V (+/- 10 % single phase, 50 Hz supply and be fitted with a SABS approved 3 pin rubber plug top held down by two screws. The minimum length of the power supply cord must be 5 meters.		
12.2		Security key switch (x-ray) must have at least 2 keys		

12.3		Laser positioning device, mounted on generator under the table.		
12.4		Emergency stop button		
12.5		Video output for external documentation		
12.6		pedal foot switch		
12.7		The system must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
12.8		Radiation Warning Light/Visual Display		
12.9		Sterile covers for the c-arm and the monitor system must be supplied.		
12.10		Thermal printer (210 mm HD)		
13		**RADIATION PROTECTION**		
13.1		The system must have dose reduction mechanisms including software.		
13.2		Standard QC software packages.		
13.3		QC tools		
13.4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
13.5		A radiation report must be automatically generated and transferable via DICOM.		
13.6		**UPS for C arm must be fitted into a cabinet with heavy duty wheels / castors that comes with footbrakes. The UPS support time must be minimum 10 minutes - to enable proper shutdown of system.**		
13.7		**The electric cable connecting the UPS unit to the C-arm must be 5m in length. State if UPS is integrated into the C-arm system or provided as an external unit to provide uninterruptable power supply during power outages.**		
14		**SOFTWARE PACKAGE**		
14,1		DSA Package AS OPTION		
15		**OPTIONS**		
15,1		LIST FREE OPTIONS IN THE PRICE SCHEDULE		

15,1		LIST PRICED OPTIONS IN THE PRICE SCHEDULE (ITEMIZE THEM)		

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NAME OF THE BID

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DIGITAL MOBILE C-ARM UNIT 20KW VASCULAR

Item	DIGITAL MOBILE C-ARM UNIT 20KW VASCULAR	SPECIFICATIONS	Complies Yes/No	Comment with detailed answer where requested
		A - Modality Details		
1		LARGE AND LIGHTWEIGHT DIGITAL MOBILE FLUORO C-ARM SYSTEM WITH FLAT PANEL DETECTOR		
1.1		C-arm system with easy movement, radiation indicator, handswitch, footswitch and a footbrake to lock the system.		
1.2		The C-arm must have a motorised vertical movement of minimum 400 mm.		
1.3		The C-arm must have a horizontal range of minimum 200mm.		
1.4		The C-arm must have an orbital movement range? State orbital movement values (- ° value to + ° value).		
1.5		The C-arm system must have a rotation/angulation around the horizontal of at ± 220°.		
1.6		The unit offered must have a swivel range (panning) of minimum 10 degrees in each direction (WIG/WAG).		
1.7		The C-arm system must have a focus to image receptor distance of minimum 90 cm.		
1.8		C-arm vertical free space minimum 90cm.		
1.9		C-arm depth minimum 65cm.		
1.10		Ultra-compact foot switch with rear wheel steering,including push bar and handles for easy maneuverability and positioning of the stand.		

1.11		Patented steering & braking lever with parallel movement of the mobile stand in all directions.		
1.12		Position memory function.		
1.13		Counterbalanced C-arm equipped with effective brakes		
1.14		Colour coding of C-arm movements for ease of C-arm movements		
2		**X-RAY TUBE AND GENERATORS**		
2.1		Generator should be single phase, high frequency, microprocessor-controlled with a nominal output of 20kw.		
2.2		The X-ray tube must have a rotating anode.		
2.3		Dual focus. Dimensions for each focus.(We prefer ± 0.3 / 0.6 mm)		
2.4		Anode heat dissipation: min 225kHU.		
2.5		The tube shall be able to work with full output of the generator and shall have an overload protection.		
3		**OPERATING VALUES**		
3.1		Pulsed fluoroscopy		
3.2		kVp range: Minimum 40kV. State min and max.		
3.3		Fluoro mA range: (standard is from 1.5mA up to 100 mA).		
3.4		Pulse width for pulsed fluoroscopy: A minimum of 5ms.		
3.5		Variable pulse rate range: state in pulses per second.		
3.6		Digital radiography (snapshot).		
3.7		Programmable Radiography mA		
3.8		Radiography mAs range		
3.9		Boost Fluoro exposure settings		
3.10		Automatic Brightness Control (ABC) for Fluoro image		
4		**FILTERING AND COLLIMATOR SYSTEM**		
4.1		Total filtration: must include minimum 3mm Al equivalent.		
4.2		Radiation dose.		
4.3		Collimator System:		
4.4		Motorized Collimator.		
4.5		Collimator rotation should be ± 90°.		
4.6		Circular/ Rectangular opening with lead iris leaves.		
4.7		Asymetric slot collimator.		
4.8		Must be able to adjust collimation without emitting radiation.		
4.9		Minimum of two shutters. The shutters shall be able to rotate and shall be independently adjustable.		

5		**FLAT PANEL DETECTOR SYSTEM**		
5.1		Amorphous silicon photodiode or better.		
5.2		TFT technology: Scintillator to be Cesium Iodide.		
5.3		Detector Field size should be minimum 25cm x 25cm		
5.4		Pixel size smaller than 190µm.		
5.5		Detector matrix minimum pixels 1500 x 1500		
5.6		Three selectable zoom sizes must be included.		
5.7		Dynamic range/ Gray scale: (standard is 14 bit)		
5.8		Laser localiser integrated in the detector housing.		
6		**TELEVISION SYSTEM AND DISPLAY TELEVISION MONITOR AND SUPPORT STAND**		
6.1		Two high-resolution and high-brightness flatscreen LCD colour monitors integrated.		
6.2		Screen size: minimum 2 x 19"		
6.3		Maximum Resolution: minimum 1,024 x 1,024 pixels.		
6.4		Possible to view images at 170 degrees angles (horizontal and vertical).		
6.5		Brightness: should be minimum 600 cd/m².		
7		**USER INTERFACE**		
7.1		Intuitive icons for easy use		
7.2		Touch screen control panel		
7.3		User friendly		
7.4		One monitor must have touch screen capabilities		
7.5		Ergonomics and light weight.		
7.6		Able to do patient data input and other user input		
7.7		Programmable setup of the interface must be possible.		
7.8		Digital but able to be manually manipulated		
8		**DIGITAL IMAGE PROCESSING**		
8.1		Real-Time Processing Functions.		
8.2		Recursive filter.		
8.3		Stack filter ('Last Image Hold') memory for at least six images.		
8.4		Edge enhancement.		
8.5		Windowing and step windowing.		
8.6		Digital image rotation and reversal without emitting radiation.		
8.7		Grayscale inversion.		
8.8		Digital shutters must be available.		
8.9		Application-Oriented Anatomical Programs to be available eg Bone, Heart, Abdomen, Endo.		
8.10		Software imaging programs for Motion, Metal, Soft, Large Patient.		
8.11		Image Acquisition.		
8.12		Autosave.		

8.13		Cine loop with auto-playback.		
8.14		Sequential image storage and display.		
8.15		State all available frame rates.		
8.16		Start, stop and replay rate controls		
8.17		Grayscale: (standard is14 bit) state		
9		**POSTPROCESSING FUNCTIONS**		
9.1		Edge enhancement		
9.2		Zoom: 3 levels		
9.3		Image rotation		
9.4		Windowing		
9.5		Grayscale inversion		
9.6		Image cropping (digital shutters)		
9.7		Digital measurement functions (distance/angle)		
9.8		Digital Memory		
9.9		Storage capacity for minimum of 20 000 mages.		
9.10		Memory matrix: minimum 1,024 x 1,024 pixels		
9.11		Image matrix: minimum 1,024 x 1,024 pixels.		
9,12		**Digital Image processing and software**		
9.12.1		**vascular software: DSA realtime subtraction with blus tracking, RSA roadmapping and MSA opacification sequence**		
9.12.2		**Which page describes your Vascular software in your brochure?**		
9.12.3		**Pixel shift and landmarking**		
10		**DATA ORGANIZATION**		
10.1		Patient-based data management.		
10.2		Pre-registration via DICOM Worklist (PACS/RIS).		
10.3		Manual input for emergency registration		

11		**ARCHIVING**		
11.1		Must be possible to incorporate into hospital PACS network/PACS.		
11.2		DICOM compatible (latest version)		
11.3		Primary Capture mode.		
11.4		Available DICOM Classes.		
11.5		Storage Class incl. multiframe capability and Storage Commitment		
11.6		Print Class		
11.7		Interface DICOM: "Send as SCU"		
11.8		Worklist Class incl. Modality		
11.9		Modality Performed Procedure Step (MPPS):		
11.10		Query/Retrieve		
11.11		Verification		
11.12		A "Conformance Statement" for all DICOM interfaces		
11.13		Video printer (option): paper and /or film must be included		
11.14		USB port		
11.15		Export formats: DICOM, TIFF, zipped format (state size), JPEG,Multimedia (AVI)		
11.16		The storage capacity and number of images storage capacity on the unit (min 20 000)		
11,17		Automatic DICOM viewer software must be written on USB device when images are exported		
12		**ELECTRICAL REQUIREMENTS AND OTHER**		
12.1		The offered system must function off a standard 220V (+/- 10 % single phase, 50 Hz supply and be fitted with a SABS approved 3 pin rubber plug top held down by two screws. The minimum length of the power supply cord must be 5 meters.		
12.2		Security key switch (x-ray) must have at least 2 keys		
12.3		Laser positioning device, mounted on generator under the table.		
12.4		Emergency stop button		
12.5		Video output for external documentation		
12.6		pedal foot switch		
12.7		The system must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
12.8		Radiation Warning Light/Visual Display		
12.9		Sterile covers for the c-arm and the monitor system must be supplied.		
12.10		Thermal printer (210 mm HD)		
13		**RADIATION PROTECTION**		
13.1		The system must have dose reduction mechanisms including software.		
13.2		Standard QC software packages.		
13.3		QC TOOLS		

13.4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
13.5		A radiation report must be automatically generated and transferable via DICOM.		
13.6		**UPS for C arm must be fitted into a cabinet with heavy duty wheels / castors that comes with footbrakes. The UPS support time must be minimum 10 minutes - to enable proper shutdown of system.**		
13.7		**The electric cable connecting the UPS unit to the C-arm must be 5m in length. State if UPS is integrated into the C-arm system or provided as an external unit to provide uninterruptable power supply during power outages.**		
14		OPTIONS		
14,1		LIST FREE OPTIONS IN THE PRICE SCHEDULE		
14,1		LIST PRICED OPTIONS IN THE PRICE SCHEDULE (ITEMIZE THEM)		

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2030 NDP

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FIXED CHEST X-RAY UNIT, DIGITAL, WITH FLAT PANEL TECHNOLOGY X-RAY MACHINE

Item	DDR CHEST UNIT WITH FIXED ERECT BUCKY DETECTOR	SPECIFICATIONS	Complies Yes/No	COMMENT (where requested, give detailed answer)
		A - Modality Details		
A.		DIGITAL FIXED CHEST X-RAY UNIT, FLOOR MOUNTED X-RAY TUBE AND ERECT BUCKY STAND WITH FIXED DETECTOR		
A1		Digital X-ray unit System		
A2		The system must be capable of performing all general radiographic examinations of adults and children		
A3		The system must be configured with the x-ray tube affixed to a floor mounted tube stand and a vertical bucky stand combination.		
A4		The system must incorporate 43x43 digital flat panel detector		
A5		Fixed flat panel detector.		
A6		System must include a **minimum** of 19" LCD flat screen colour monitor for operators console / acquisition review station.		

A7		UPS provided to be mounted on a bracket/cabinet, not to be placed directly on the floor.		
A8		The system must have removable grids.		
A9		connected to existing min PACS		
A10		Paper printer.		
1		**X-RAY GENERATOR**		
1.1		Generator should be of latest technology with high frequency and high speed starter and a power output of minimum 60kW		
1.2		A monitoring and display for heat status must be provided.		
1.3		AEC Functionality with 3-field ionization chamber		
1.4		APR Functionality (Anatomical programming)		
1.5		Minimum of 600mA at 100kV. See IEC60601-2-7 requirements.		
1.5		Selectable kV range of min 40 with 1kv increments (standard max KVP is 150, state yours).		
1.6		The system must have selectable mAs.		
1.7		Shortest exposure time with AEC.		
1.8		Automatic mains compensation capability must be included.		
2		**X-RAY TUBE AND FLOOR MOUNTED TUBE COLUMN STAND**		
2.1		X-ray tube should be a rotating anode high speed, compatible with the fixed detector.		
2.2		Dual focal spot (small and large focus sizes) must be provided.		
2.3		Real time of tube overloading and protection is required and must be displayed.		
2.4		Anode heat storage capacity must be **minimum** 300 kHU.		

2.5		Minimum total inherent filtration at 70kV is 2.5mm Al (IEC 60601-1-3 Standard).		
2.6		Manual multileaf collimator with rotating flange collimator		

2.7		Swivelling/rotation of collimator must be up to 45° relative to zero axis on either direction.		
2.8		Light localizer on / off switching		
2.9		Collimator must have electronic timer to terminate the light.		
2.10		X-ray Tube rotation range between 120 ° up to 135 ° relative to zero axis on either direction.		
2.11		Variable SID of the system		
2.12		Free standing tube stand with rotational column design and telescopic tube arm movement,		
2.13		Column rotation around its own axis be 90 ° on either direction with a locking mechanism.		
2.14		describe X-ray tube system movement.		
2.15		Longitudinal floor rails to ensure an extended travel range.		
2.16		The longitudinal rail extension set must have permanent stoppers / brackets at each end of the rail set, with shock absorbers to ensure the unit does not derail.		
2.17		Electromagnetic brakes with fully counter balanced mechanism.		
2.18		Interlocking mechanism for **100cm, 150cm** and 180 cm SID. These distances must be electronically displayed on the x-ray tube /collimator housing.		
3		**VERTICAL STAND WITH DETECTOR UNIT / ERECT BUCKY**		
3.1		Vertical stand fitted with a digital flat panel - detector and AEC measuring chambers displayed on erect stand.		
3.2		Built in tray/support for digital detector		
3.3		The digital flat panel detector must be fixed		
3.4		Vertical height of stand must be Min 200 cm.		

3.5		Range of vertical movements of bucky: minimum height 45 cm from the floor maximum height more than 180cm.		
3.6		Patient hand grips for arms above head and on side of detector holder.		
4		**ONE DIGITAL FLAT PANEL DETECTOR**		
4.1		One Digital FP detectors 43cm x 43 cm field size.		
4.2		Amorphous silicon with cesium iodide scintillator.		
4.3		Detector must have a minimum acquisition depth of min 14 bits grayscale.		
4.4		Pixel pitch must be approximately160 micrometer (µm).		
4.5		Detector must have pixel matrix of min 2000 x 2000.		
4.6		fixed FP detector.		
4,7		DQE must be min 60% @ 0 line pairs per millimeter / min 50% @ 0.05 line pairs per millimeter / min 40% @ 1 line pairs per millimeter (lp/mm).		
4,8		Description of the scatter radiation grids used in conjunction with the detectors.		
4,9		The data transmission / reading speed from exposure to preview **should be max 5 seconds.**		
4,1		The data transmission / reading speed from exposure to full image **should be max 10 seconds**.		
5		**OPERATOR CONSOLE**		
5.1		High resolution digital radiography system with DICOM network connection for image processing and image display on a preview monitor.		
5.2		A diagnostic LCD min 19 inch sized, flat screen colour monitor for the imaging workstation is required. Must be based on the latest flat panel detector technology for high image dynamics with excellent signal/noise ratio.		
5.3		Application and examination database sotfware included.		
5.4		Image processing software are included		
5.5		64 bit 3.2GHz i5 Core Dual Microprocessor or similar. Explain if better		
5.6		**RAM: min 8 GB**		

5.7		64 bit Operating system included (Windows or Similar)		
5.8		Image storage capacity min 10 000 full format images on internal hard drive.		

5.9		No Autodeletion of images stored on internal hard drive. System to alert when near maximum storage capacity is reached.		
5.10		System must be DICOM compliant. The certificate must be submitted.		
5.11		System must be capable and ready for use at no additional costs for integration with:HIS, HMS, RIS, PACS		
5.12		DVD/CD Writer inclusive of software for functionality of the DVD/CD Writer.		
5.13		Virus free software.		
5.14		Ergonomic keyboard with mouse and function buttons.		
5.15		Memory stick support/USB PORT.		
5.16		Touch screen monitor.		
6		**USER INTERFACE**		
6.1		Patient data entering		
6.2		Menu		
6.3		Integrated generator operation		
6.4		Menu control		
6.5		Organ program selection		
6.6		Window position/width		
6.7		Horizontal/vertical image mirroring		
6.8		Image manipulation: rotation, cropping, contrast, brightness, sharpness, inversion		
6.9		Left/right, ap/pa working		
6.10		Configurable text annotation		
6.11		Filter selection for edge enhancement		
6.12		Filter selection for noise suppression		
6.13		Image pan and zoom capability		
6.14		measurement tools		
7		**APPLICATION AND EVALUATION PROGRAMS**		

7.1		Organ-related application program		
7.2		Post processing functionality		
7.3		Windowing (centre/width)		
7.4		Paging forward and back		
7.5		Multi-image display on the monitor (mosaic)		
7.6		Retro-collimation facilities (shutter)		
7.7		Image documentation in the background		
7.8		Multi-tasking technique		
7.9		Edge enhancement		
7.10		Noise suppression		
7.11		pan, zoom and image manipulation		
7.12		Individual energy substraction programs provided		
8		**SYSTEM INTERPHASE**		
8.1		Detector interface		
8.2		PACS ready		
8.3		Interface DICOM: "Basic Print"		
8.4		Interface DICOM: "Modality Worklist"		
8.5		Interface DICOM: "Send as SCU"		
8.6		Interface DICOM: "Storage"		
8.7		Interface DICOM "Image export/ transfer/query/retrieval to PACS/HIS/RIS		
8.8		Conformance Statement for all DICOM interfaces.		
8.9		Firewall protection		

8.10		The succesful bidder must ensure that the configuration between the processed images on the Digital Imaging Workstation and that transferred to the receivers of these images, such as PACS , Printer, CD/DVD are properly calibrated/ reconfigured during installation, service and maintenance, repairs, and future software updates/upgrades .		

9		**RADIATION PROTECTION**		
9.1		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure.		
9.2		X-ray Warning Notice for display at the X-ray Room entrance (not branded).		
9.3		An advanced Retake / Reject / Repeat analysis software package that includes user defined analysis and calculations as well as rejections, must be provided for all procedures.		
9.4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
9.5		A radiation report (QA, QC and PM) must be automatically generated and transferable via DICOM.		
9.6		Quality Test Tools must be provided.		
10		**POWER SUPPLY**		
10.1		A True Online Uninterrupted Power Supply System (UPS system) must be offered for control console systems. The UPS support time must be MIN 30 minutes to enable proper shutdown of systems.		
10,2		connect machine to 3 phase power supply and backup generator		
11		**PAPER PRINTER**		
11,1		Integrated paper printer		
11,2		A3 and A4		
11,3		Ink		
11,4		MUST BE Connected: Power, Network, etc		
12		**OPTIONS**		
12,1		**List all non-specified options that come free with the machine in price schedule**		
12,2		MINI PACS with 4 workstations (must be able to store more than 100 000 patients/images). Please provide this in list of options in the tender price schedule.		

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APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

DIGITAL PANOREX UNIT

	DIGITAL PANOREX UNIT	SPECIFICATIONS	YES / NO	*Provide your detailed answers in this column. (where requested)*
1		**PANOREX**		
1.1		Panerex Digital: Horizontal and vertical movements for different types of patients. Exams: Standard panoramic, Lateral TMJ, PA TMJ, PA Sinus		
1.2		The unit must have a software system capable of automatically removing redundant tomographic shadows and ghost images that result in geometric unsharpness, e.g. ghost images/shadows of the cervical spine and the occiput.		
1.3		The unit should allow for optimum selection of exposure factors to reduce the radiation dose.		
1.4		The unit must allow for pre-programmed settings for children and different sizes of adults.		
1.5		The unit must have an automatic double TMJ program to perform full temporo-mandibular studies on a single display or film.		
1.6		The unit must have a sinus program, which will show a clear view of the maxillary sinuses.		

1.7		Exposure factors should be pre-programmed, but also manually selectable.		
1.8		The unit must be capable of performing image segmenting to reduce radiation, e.g. vertical segmenting to expose a smaller area of diagnostic interest.		
1.9		The unit must be able to perform the Exact, immediate positioning of the anterior teeth in the focal layer.		
1.10		The unit must have following functions; Central control, motorized, height adjustment, forehead and temple supports.		
1.11		The unit must have a stable headrest (forehead and temple supports) to prevent motion blurring.		
1.12		The unit must have Bite Guide / Chin Rest with adaptable anterior position adjustment for both adult and children.		
1.13		The unit must have a fixed bite block which is easy to clean after each patient.		
1.14		The unit must have hand grips for both hands for immobilization.		
1.15		The unit must have a patient mirror to assist with accurate positioning.		
1.16		The unit must have laser alignment lights to accurately guide patient positioning.		
1.17		The unit must have a touch screen with simple and intuitive text and or graphic symbols that prompt the operator.		
1.18		The unit must display all necessary information on the main console.		
1.19		The shape of focal layer must be adjustable to suit the different jaw sizes and shapes during pan tomography.		
1.20		The unit must be equipped with a self-diagnostic test system, capable of displaying error messages/codes must be incorporated into the unit.		
1.21		The unit must incorporate a fully automatic film marking system for panoramic radiography to mark the exposure factors, the chosen program, as well as patient identification information.		
1.22		The unit must have an optional floor stand suitable for patients in wheelchairs.		
1.23		**Generator**: Constant potential, resonance mode, high frequency (average 60–80 kHz) Line voltage: average is between 100–132 V~ 50/60 Hz, or 180–240 V~ 50 Hz. the unit must have efficient power consumption. (the standard power consumption of a panorex is 2.5kW per time/exposure)		

1.24		State tube focal spot size of as according to panorex IEC 336/82 and IEC-60601.		
1.25		State total tube filtration.		
1.26		The unit must have anode voltage to be from 40kVp. State max KV		
1.27		State unit tube anode current (standard is 1-16mA)		
1.28		The unit must have small exposure times (the standard is between 2 and 20 seconds continuous or split).		
1.29		The unit must include an electronic kV compensation over the cervical spine.		
1.30		Provide standard accessories with the unit. Standard accessories are used to position the patient, mobilise and prevent health hazards.		
1.31		Provide a list of all optional accessories priced separately.		
1.32		The unit must have a Panoramic sensor. State image pixel size in Microns (µm) of the sensor and details of bit technology of image acquisition.		
1.33		UPS in line (in series connection to main power supply) / on line (uninterruptable power supply unit) for the workstation, must be included in the tender price.		
1.34		The support time of UPS should min 30 minutes after main power interruption.		
1.35		The internal power supply of the system must have an integrated voltage stabilizer.		
1.35		**State achievable SID/FFD (standard is +/-** 480 mm)		
1.36		**Sate Magnification Pan (average constant is 1.2)**		
1.37		**State Sensor pixel size (average is 48 µm)**		
1.38		**State Image pixel size (average is 48/96/144µm) selectable**		
1.39		**State Sensor active surface for Pan (average is 6 x 146 mm)**		
1.40		**State Image field Pan (average is 14 x 30 cm).**		
1.41		**State File size, un-compressed Pan (average is 4–33 MB)**		
1.42		Basic panoramic programs: Standard panoramic Lateral TMJ (closed & open) PA TMJ (closed & open) PA sinus		

2		**SYSTEM CONNECTIVITY**		
2.1		The unit must have an appropriate workstation with LCD touch screen.		
2.2		The touch screen interface must have display settings of min 1280 x 1024 at 32 bit true color.		
2.3		**The unit must have a minimum RAM of 8GB and minimum hard disk memory of 500GB.**		
2.4		The offered system must be DICOM 3 & HL7 compatible.		
3		**THE FOLLOWING DICOM 3 FUNCTIONALITIES MUST BE INCLUDED:**		
3.1		DICOM print		
3.2		DICOM store		
3.3		DICOM modality work list		
3.4		DICOM modality performed procedure step		
3.5		DICOM storage commitment		
3.6		DICOM query and retrieve		
3.7		CD/DVD - rewriteable functionality must be activated and ready for use		
3.8		Teleradiology ready		
3.9		Autotransfer of images to PACS system		
3.10		The required QC test tools and phantoms for routine QC tests to be performed by the licence holders/end-users (as prescribed by Radiation Control) on Digital Panelipse system must be included in the offer. Details are stated in supporting documents provided.		
3.11		Training for licence holders/ end users on how to perform the prescribed routine QC tests must be provided. Details are stated in supporting documents provided.		
3.12		An advanced Retake / Reject / Repeat analysis software package that includes raw data results, analysis and reject rate calculations in percentages, must be provided. Details is stated in the supporting documents.		
4		**RADIATION PROTECTION**		
4.1		The system must have dose reduction mechanisms including software.		

4.2		The following phantoms for QC on DDR must be included:		
4.2.1		a. TOR RAD software		
4.2.2		b. SMPTE / TG18-QC software		
4.2.3		c. 1mm thick Copper plate.		
4.3		The system must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
4.4		A radiation report must be automatically generated and transferable via DICOM Send.		
5		**OPERATOR'S CONSOLE - ACQUISITION AND IMAGE PROCESSING VIEW STATION**		
5.1		The operator's console must connect wirelessly to PACS/ RIS/Printer.		
5.2		The operator's console must be able to connect with LAN to PACS/ RIS/Printer.		
5.3		The equipment must have DICOM 3 and HL7 standard for Work list Management.		
5.4		A button/ icon for option to print to a DICOM DRY LASER printer shall be displayed on the screen at the end of each exposure and end of each examination.		
5.5		A button/ icon to send to PACS must be displayed on the screen at the end of each exam and must form part of the workflow.		
5.6		The DICOM Modality Work list must be displayed on the screen and must form part of the workflow.		
5.7		The worklist must allow for the display of examinations scheduled and performed and must reflect the date, time and patient details of each examination.		
5.8		An accession number must be created automatically should a manual entry be done.		
5.9		The equipment must allow emergency examinations. A temporary ID must then be created when an emergency examination is done.		
5.10		The equipment must allow for the manual correction of patient details, if a temporary ID was created or the ID was entered manually or an error occurred during the capturing of the patient details		

5,11		The following image processing tools must be included: a. Intensification. Edge enhancement b. Image marker LT or RT selection c. PA or AP selection d. Rotation e. Inversion f. Zoom g. Windowing h. Filtration i. Adding to annotations		
5.12		Exposure factors must be displayed on the screen.		
6		**QUALITY ASSURANCE**		
6.1		A hard copy or an electronic soft copy of the Operator Manual and Quality Assurance Manual must be furnished.		
6.2		Quality Assurance phantoms must be supplied.		
6.3		Quality Assurance training must be given to the radiographers.		
6.4		A retake/ reject/repeat analysis software package must be included in the tender price. This advanced software must be able to analyse and provide calculations automatically and provide the results as a percentage.		
6.5		The retake/ reject/repeat analysis software package must be able to generate analysis for each individual user as per login name.		
7		**OPTIONS**		
7,1		price for ceph (as an added option in price schedule, itemized)		
7,2		provide if your machine comes with cepth as standard in price schedule		
7,3		free standard free options that come with machine (listed in the price schedule)		

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MOBILE X-RAY UNIT, DIGITAL, WITH FLAT PANEL TECHNOLOGY X-RAY MACHINE 20KW

	DIGITAL MOBILE X-RAY USING FLAT PANEL TECHNOLOGY, 20KW	SPECIFICATIONS	YES / NO	*Provide your detailed answers in this column. (where requested)*
1		**MICROPROCESSOR CONTROLLED HIGH FREQUENCY GENERATOR**		
1,1		Power range **20KW**		
1,2		Maximum mA Range: Min 160 mA at 100kV. See IEC60601-2-7		
1,3		kV range 40+ (the max kv must be minimum 125kv) state max KV:		
1,4		Exposure range time max 10s		
1,5		mAs range (standard is 0.1 - 500 mAs) state yours.		
1,6		Steps for kV-settings are adjustable from minimum to maximum kV range 1kV increments.		
1,7		Anatomical programming protocols must be included.		
2		**MOBILE STAND AND COLLIMATOR**		
2,1		Manual multileaf collimator with SID measuring device and field illumination		
2,1		Collimator must have electronic timer to terminate the light		
2,2		± 45° swivelling/rotation of collimator		
2,3		Light and field intensity of collimator of minimum 160 lux		
2,4		Handswitch with release button(dead man switch)		
2,5		Retractable tape meter for easy SID measurement (measuring tape and electronic indicator on tube housing.		

2,6		X-ray exposure switch on extension cable of min 3 meters		
2,7		Pressure sensitive driven handle for speed control and braking.		
2,8		Anti-collision sensors for frontal and on the sides of the unit.		
2,9		Storage compartment for Min 2 x 43 cmx43 cm wireless detectors		
2.10.		Apron hanger (Hook type bracket for hanger).		
2,11		All connections and cables attached to mobile unit, must be safely secured		
2,12		Radiation Warning signs must be displayed /permanently affixed on both sides of the unit		
3		**X-RAY TUBE**		
3,1		High speed X-ray tube with rotating anode		
3,2		Nominal focal spot according to IEC 60336 : 0.5 mm/ 0.6mm and 1mm/ 1.2 mm/.8mm (nominal)		
3,3		Anode heat storage capacity of min 80 000 J (107 000 HU)		
3,4		X-ray tube rotation. State details of all rotational angles.		
3,5		The maximum focus height from the floor, must be Minimum 200cm (2m).		
3,6		Telescopic arm: The maximum distance of tube arm reach must be between range minimum must be100cm.		
3,7		Counterbalanced system		
3,8		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure		
4		**MOTORDRIVE AND BATTERIES**		
4,1		Large sturdy wheels to be incorporated		
4,2		Speed of motorized forward movement (standard is 5 km/h, state yours)		
4,3		Battery operated movement of the unit		
4,4		Forward and reverse movement capability		
4,5		Lead acid free, maintenance- free sealed batteries.		
4,6		Independent battery power pack systems for driving and imaging.		
4,7		Automatic charging in the detector holder		
4,8		Battery must last for min 12 hrs when fully charged.		
4,9		Battery charge status/ level indicator to be available.		
4.10.		Battery operating time when fully charged: Not less than 3 hours.		

5		**Digital Flat Panel Detector**		
5,1		Wireless Digital Flat Panel detector min 35 cm x 43 cm field size		
5,2		Amorphous silicon with cesium iodide scintillator		
5,3		Detector to have matrix in pixels of min 2000 x 2000		
5,4		Detectors have acquisition depth of min 14 bits grayscale.		
5,5		Pixel pitch (standard is 160 micrometer µm).		
5,6		DQE must be between a range of 60%-70% @ 0 line pairs per millimeter / 50%- 60 % @ 0.05 line pairs per millimeter / 40 %-50% @ 1 line pairs per millimeter (lp/mm).		
5,7		A radiation grid compatible with the detector.		
5,8		The data transmission/ reading speed from exposure to preview max 10 seconds.		
5,9		The data transmission/ reading speed from exposure to full image max 15 seconds.		
6		**IMAGE PROCESSING AND SYSTEM PERFORMANCE**		
6,1		High resolution digital radiography system with DICOM network connection for image processing and image display on a preview monitor		
6,2		A diagnostic radiology imaging workstation based on latest flat panel detector technology for high image dynamics with excellent signal/noise ratio is required. The operator console and workstation is permanently incorporated/attached into the mobile unit.		
6,3		Application and examination database software.		
6,4		Image processing software are included		
6,5		64 bit 3.2GHz i5 Core Dual Microprocessor or similar		
6,6		**RAM: minimum 8 GB**		
6,7		64 bit Operating system included (Windows or Similar)		
6,8		Image storage capacity min 4 000 of full format images on internal hard drive. .		
6,9		No Autodeletion of images stored on internal hard drive. System to alert when near maximum storage capacity is reached.		
6,1		System must be DICOM compatible and capable of HIS/HMS/ RIS and PACS integration		
6,11		QC SOFTWARE		
6,12		Virus free software		
6,13		Memory stick support/USB PORT for QC		

6,14		Touch screen monitor		
6,15		Pre-programmable settings		
7		**USER INTERFACE**		
7,1		Patient data entering		
7,2		Menu		
7,3		Integrated generator operation		
7,4		Menu control		
7,5		Organ program selection		
7,6		Window position/width		
7,7		Horizontal/vertical image mirroring		
7,8		Image manipulation: rotation, cropping, contrast, brightness, sharpness, inversion		
7,9		Left/right, ap/pa working		
7,1		Configurable text annotation		
7,11		Filter selection for edge enhancement		
7,12		Filter selection for noise suppression		
7,13		Image pan and zoom capability		
7,14		measurement tools		
8		**CONTROL CONSOLE**		
8,1		Patient data entering		
8,2		Manual		
8,3		Bar code reader		
8,4		Monitor size in inch min 19inch (diagonal)		
8,5		Colour		
8,6		Menu		
8,7		Integrated generator operation		
8,8		Menu control		
8,9		Organ program selection		
8,1		Window position/width		
8,11		Horizontal/vertical image mirroring		

8,12		Image rotation		
8,13		Left/right, ap/pa working		
8,14		Configurable text annotation		
8,15		Filter selection for edge enhancement		
8,16		Filter selection for noise suppression		
8,17		Image zoom capability		

9		**APPLICATION AND EVALUATION PROGRAMS**		
9,1		Organ-related application program		
9,2		Post processing functionality		
9,3		Windowing (centre/width)		
9,4		Paging forward and back		
9,5		Multi-image display on the monitor (mosaic)		
9,6		Retro-collimation facilities (shutter)		
9,7		Image documentation in the background		
9,8		Multi-tasking technique		
9,9		Edge enhancement		
9,1		Noise suppression		
9,11		Zoom		
9,12		Individual energy substraction programs provided		
10		**DICOM FUNCTIONS**		
10,1		Interface DICOM: "Basic Print"		
10,2		Interface DICOM: "Modality Worklist"		
10,3		Interface DICOM: "Storage"		
10,4		Interface DICOM: "Send as SCU"		
10,5		Interface DICOM "Image export/transfer to Laser Printer/Image viewer/ PACS/HIS/RIS		
10,6		A "Confirmation Statement" for all DICOM interfaces to be supplied		
10,7		Retractable LAN cable for back up connection		
10,8		Firewall protection		
11		**RADIATION PROTECTION**		
11,1		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure		
11,2		X-ray Warning Notice for display on the mobile unit		

11,3		An advanced Retake / Reject / Repeat analysis software package that includes analysis as well as calculations in percentages, must be provided for applicable systems.		
11,4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
11,5		A radiation report must be automatically generated and transferable via DICOM.		
11,6		Keyboard and mouse in case the touch screen is not working.		
12		**OPTIONS**		
12,1		Price of 1x flat panel detector including specifics of its size (include this in the list of options). Paeds and OR Adult		
12,2		provide a list of free and standard options that some with the machine in the price schedule.		
12,3		**provide a list of priced options that can be purchased with the machine**		

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MOBILE X-RAY UNIT, DIGITAL, WITH FLAT PANEL TECHNOLOGY X-RAY MACHINE 32KW

	DIGITAL MOBILE X-RAY MACHINE USING FLAT PANEL TECHNOLOGY, 32KW	SPECIFICATIONS	YES / NO	*Provide your detailed answers in this column. (where requested)*
1		MICROPROCESSOR CONTROLLED HIGH FREQUENCY GENERATOR		
1,1		Power range **32KW**		
		Please state kW type of your machine (bidder is allowed to put different size machines on tender)		
1,2		Maximum mA Range: Min 160 mA at 100kV. See IEC60601-2-7		
1,3		kV range 40+ (the max kv must be minimum 125kv)		
		state max KV:		
1,4		Exposure range time max 10s		
1,5		mAs range (standard is 0.1 - 500 mAs) state yours.		
1,6		Steps for kV-settings are adjustable from minimum to maximum kV range 1kV increments.		
1,7		Anatomical programming protocols must be included.		
2		MOBILE STAND AND COLLIMATOR		
2,1		Manual multileaf collimator with SID measuring device and field illumination		
2,1		Collimator must have electronic timer to terminate the light		
2,2		± 45° swivelling/rotation of collimator		
2,3		Light and field intensity of collimator of minimum 160 lux		
2,4		Handswitch with release button(dead man switch)		
2,5		Retractable tape meter for easy SID measurement (measuring tape and electronic indicator on tube housing.		
2,6		X-ray exposure switch on extension cable of min 3 meters		

2,7		Pressure sensitive driven handle for speed control and braking.		
2,8		Anti-collision sensors for frontal and on the sides of the unit.		
2,9		Storage compartment for Min 2 x 43 cmx43 cm wireless detectors		
2,1		Apron hanger (Hook type bracket for hanger).		
2,11		All connections and cables attached to mobile unit, must be safely secured		
2,12		Radiation Warning signs must be displayed /permanently affixed on both sides of the unit		
3		**X-RAY TUBE**		
3,1		High speed X-ray tube with rotating anode		
3,2		Nominal focal spot according to IEC 60336 : 0.5 mm/ 0.6mm and 1mm/ 1.2 mm/.8mm (nominal)		
3,3		Anode heat storage capacity of min 80 000 J (107 000 HU)		
3,4		X-ray tube rotation. State details of all rotational angles.		
3,5		The maximum focus height from the floor, must be Minimum 200cm (2m).		
3,6		Telescopic arm: The maximum distance of tube arm reach must be between range minimum must be100cm.		
3,7		Counterbalanced system		
3,8		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure		
4		**MOTORDRIVE AND BATTERIES**		
4,1		Large sturdy wheels to be incorporated		
4,2		Speed of motorized forward movement (standard is 5 km/h, state yours)		
4,3		Battery operated movement of the unit		
4,4		Forward and reverse movement capability		
4,5		Lead acid free, maintenance- free sealed batteries.		
4,6		Independent battery power pack systems for driving and imaging.		
4,7		Automatic charging in the detector holder		
4,8		Battery must last for min 12 hrs when fully charged.		
4,9		Battery charge status/ level indicator to be available.		
4,1		Battery operating time when fully charged: Not less than 3 hours.		
5		**Digital Flat Panel Detector**		
5,1		Wireless Digital Flat Panel detector min 35 cm x 43 cm field size		
5,2		Amorphous silicon with cesium iodide scintillator		
5,3		Detector to have matrix in pixels of min 2000 x 2000		
5,4		Detectors have acquisition depth of min 14 bits grayscale.		
5,5		Pixel pitch (standard is 160 micrometer µm).		
5,6		DQE must be between a range of 60%-70% @ 0 line pairs per millimeter / 50%- 60 % @ 0.05 line pairs per millimeter / 40 %-50% @ 1 line pairs per millimeter (lp/mm).		
5,7		A radiation grid compatible with the detector.		
5,8		The data transmission/ reading speed from exposure to preview max 10 seconds.		
5,9		The data transmission/ reading speed from exposure to full image max 15 seconds.		

6		**IMAGE PROCESSING AND SYSTEM PERFORMANCE**		
6,1		High resolution digital radiography system with DICOM network connection for image processing and image display on a preview monitor		
6,2		A diagnostic radiology imaging workstation based on latest flat panel detector technology for high image dynamics with excellent signal/noise ratio is required. The operator console and workstation is permanently incorporated/attached into the mobile unit.		
6,3		Application and examination database software.		
6,4		Image processing software are included		
6,5		64 bit 3.2GHz i5 Core Dual Microprocessor or similar		
6,6		**RAM: minimum 8 GB**		
6,7		64 bit Operating system included (Windows or Similar)		
6,8		Image storage capacity min 4 000 of full format images on internal hard drive. .		.
6,9		No Autodeletion of images stored on internal hard drive. System to alert when near maximum storage capacity is reached.		
6,1		System must be DICOM compatible and capable of HIS/HMS/ RIS and PACS integration		
6,11		QC TEST SOTWARE		
6,12		Virus free software		
6,13		Memory stick support/USB PORT for QC		
6,14		Touch screen monitor		
6,15		Pre-programmable settings		
7		**USER INTERFACE**		
7,1		Patient data entering		
7,2		Menu		
7,3		Integrated generator operation		
7,4		Menu control		
7,5		Organ program selection		
7,6		Window position/width		
7,7		Horizontal/vertical image mirroring		
7,8		Image manipulation: rotation, cropping, contrast,brightness,sharpness, inversion		
7,9		Left/right, ap/pa working		
7,1		Configurable text annotation		
7,11		Filter selection for edge enhancement		
7,12		Filter selection for noise suppression		
7,13		Image pan and zoom capability		
7,14		measurement tools		
8		**CONTROL CONSOLE**		
8,1		Patient data entering		
8,2		Manual		

8,3		Bar code reader		
8,4		Monitor size in inch min 19inch (diagonal)		
8,5		Colour		
8,6		Menu		
8,7		Integrated generator operation		
8,8		Menu control		
8,9		Organ program selection		
8,1		Window position/width		
8,11		Horizontal/vertical image mirroring		
8,12		Image rotation		
8,13		Left/right, ap/pa working		
8,14		Configurable text annotation		
8,15		Filter selection for edge enhancement		
8,16		Filter selection for noise suppression		
8,17		Image zoom capability		
9		APPLICATION AND EVALUATION PROGRAMS		
9,1		Organ-related application program		
9,2		Post processing functionality		
9,3		Windowing (centre/width)		
9,4		Paging forward and back		
9,5		Multi-image display on the monitor (mosaic)		
9,6		Retro-collimation facilities (shutter)		
9,7		Image documentation in the background		
9,8		Multi-tasking technique		
9,9		Edge enhancement		
9,1		Noise suppression		
9,11		Zoom		
9,12		Individual energy substraction programs provided		

10		**DICOM FUNCTIONS**		
10,1		Interface DICOM: "Basic Print"		
10,2		Interface DICOM: "Modality Worklist"		
10,3		Interface DICOM: "Storage"		
10,4		Interface DICOM: "Send as SCU"		
10,5		Interface DICOM "Image export/transfer to Laser Printer/Image viewer/ PACS/HIS/RIS		
10,6		A "Confirmation Statement" for all DICOM interfaces to be supplied		
10,7		Retractable LAN cable for back up connection		
10,8		Firewall protection		
11		**RADIATION PROTECTION**		
11,1		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure		
11,2		X-ray Warning Notice for display on the mobile unit		
11,3		An advanced Retake / Reject / Repeat analysis software package that includes analysis as well as calculations in percentages, must be provided for applicable systems.		
11,4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
11,5		A radiation report must be automatically generated and transferable via DICOM.		
11,6		Keyboard and mouse in case the touch screen is not working.		
12		**OPTIONS**		
12,1		Price of 1x flat panel detector including specifics of its size (include this in the list of options). Paeds and OR Adult		
12,2		provide a list of free and standard options that some with the machine in the price schedule.		
12,2		**provide a list of priced options that can be purchased with the machine**		

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2030 NDP

APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

DIGITAL RADIOGRAPHY SOLUTION (RETROFIT)

Item	RETROFIT DR SYSTEM	SPECIFICATIONS	Complies Yes/No	Comment (detailed answer where requested)
		Modality Details		
A		PANEL DETECTOR (FPD WITH TFT TECHNOLOGY)		
1.		Wireless Flat Panel Detector system (FPD) of Size Minimum 35cm x 43cm should be offered.		
2.		• The Scintillator material of the detectors should be made up of Cesium Iodide and sensor.		
3.		With thin Film Transistor (TFT) and Amorphous Silicon technology.		
4.		• The detectors should be capable of doing out of bucky radiography and also Lateral /supine work.		
5.		General Radiography		
6.		• The detectors offered should have on board memory capable of storing up to 150 images.		
7.		• The detectors should have a minimum spatial resolution of min 3 lp /mm		
8.		• Detector array Size: Should be a minimum of 2.3K x 2.8K pixels		
9.		• Pixel Pitch: 150 microns or less.		
10.		• A to D conversion: 16 bits OR MORE		
11.		• The detector offered should be light in weight with less than 4 kgs, enabling ease of use.		
12.		Detector must have a range of 80-100 meters for transmission of images.		
13.		Easy to positioning during out of bucky exposures.		
14.		• Images pre-viewing should be available within 5 secs after exposure.		
15.		Whole exposure cycle less than 12 seconds.		
16.		It should be possible to easily share detector with other x-ray devices in the department without any physical integration with the generator. The detector should automatically trigger for acquiring x-ray image when the x ray exposure starts.		
17.		Detector should be min IP 44 rated for dust and liquid protection.		
18.		The offered detector should be compatible for use with mobile x-ray system with dedicated console.		
19.		• The battery must be of latest Lithium Ion type. 2X Batteries along with battery charger should be provided		
20.		Battery charger. Battery last up to 5 hours with normal use.		
21.		Detector offered should be capable of handling 150 or more exposures or 5 hours of operation in single full charge		
22.		Battery warranty		
23.		• The detectors should have Automatic Exposure Detection as standard feature.		
24.		• Detector, Console software, stitching software and printer should be from the same company.		
25.		Software Brochure should be provided mentioning its capabilities and Manufacturer/ ownership of the same.		
26.		Attach notarised QA certificate issued by detector manufacturer.		
27.		SAHPRA licensing		
28.		• The detector should be able to work at normal room temperature and humidity.		
29.		The detector system should not require frequent calibrations on daily start-up.		
30.		• Offered detector should have load bearing capacity of 150 kgs		

B		**IMAGE PROCESSING CONSOLE CUM WORKSTATION WITH TABLET OR DESKTOP**		
31.		The DR Console should be offered with Desktop/LAPTOP of 17" or more.		
32.		• Windows and Level Adjustments		
33.		• Annotations must be possible		
34.		• Previews of images should be available in about 5 Sec or less		
35.		The DR Console should be offered with Desktop/LAPTOP of 17" or more.		
36.		• Windows and Level Adjustments		
37.		• Annotations must be possible		
38.		• Previews of images should be available in less than 5 Sec		
39.		Zooming, ROI, Image Cropping and grid removal function should be available.		
40.		• Soft tissue processing must be possible		
41.		• Bone Suppression Imaging (removal of clavicle bone and ribs) should be available.		
42.		View of the chest and lungs clearly.		
43.		• System should be offered with orthopedics measurement tools		
44.		• Should offer capability of local image storage		
45.		• Should be capable of connecting minimum of 2 Flat panels simultaneously		
46.		• Should be capable of connecting directly to the Dry Laser printer or paper printer		
47.		• Should have capability to push images to location(s) of choice such as: Zooming, ROI, Image Cropping and grid removal function should be available		
48.		Storage of more than 100 000 images		
49.		• Should have capability to push images to location(s) of choice such as:		
49.1		Workstations		
49.2		PACS		
49.3		External Storage Devices		
49.4		DICOM Printer(s)		
C		**OTHER REQUIREMENTS**		
50.		Offered detectors should be CE/USFDA/IOS/SAHPRA Approved.		
51.		• Detectors, Console Software and Printer should be mandatorily from the same principal manufacturer.		
52.		Software brochure should be provided with details on application and its ownership.		
53.		• Easy availability of spares in RSA		
54.		• Trained engineers to maintain and support the system.		
55.		All specifications to be provided with original product data sheet.		
56.		• Offered system should have 2 year warranty from date of installation.		
57.		5 YEAR MAINTENANCE must be quoted separately.		
58.		• Compliance Statement.		
59.		UPS standard to run the computer for at least 30min.		
60.		• The company should have a local Service centre (RSA).		
61.		All specifications to be provided with original product data sheet.		
62.		QA and acceptance test done after installation.		
63.		Installation part of the solution including all connections.		
D		**IT INTEGRATION**		
64.		The system must have the following DICOM 3 compatibility:		
65.		DICOM Send / Receive		
66.		DICOM Storage Commitment (SC):		
67.		DICOM query/retrieve		
68.		DICOM worklist		
69.		DICOM Basic Print		

E		**AFTER SALES CUSTOMER CARE AND SERVICE**		
70.		State capacity and capability of your after sales service		
71.		Up-Time is defined as follows: 24/7; i.e. 365days times 24 hours = 8760 Hours. A down time of 2% relates to 175 hours per annum.		
72.		Spares turn-around to achieve 98% Up-time.		
73.		No part shall be second hand or refurbished.		
F		**OPTIONS (not mandatory)**		
74		Please provide a list of free and standard features of your machine (in the price schedule)		
75		List of priced options		

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DIGITAL REMOTE CONTROLLED- TABLE FLUOROSCOPY SCREENING SYSTEM

NO.	SCREENING MACHINE, DIGITAL, USING FLAT PANEL TECHNOLOGY DETECTORS	SPECIFICATIONS	YES/NO	COMMENT (detailed answer where requested)
1		**DIGITAL REMOTE CONTROLLED-TABLE FLUOROSCOPY SCREENING SYSTEM**		
1.1		The system must be able to perform a wide range of specialised programs in fluoroscopy with low radiation dose and high quality imaging. System must include: Remote Controlled-table fluoroscopy screening unit, Single x-ray tube and assembly 1x table bed that can go up and down, move side to side, and position erect, X-ray generator, Radiologist workstation, UPS, Control panel, In-room control console, Acquisition monitor and live monitor, In-room live monitor and main monitor, Foot pedals, DAP meter, Flat panel detector, Removable grid, Dicom printer, And room aircon.		
1.2		**Brand name of unit on offer**		
1.3		**MODEL (same as the one highlighted on the list of approved equipment by SAHPRA)**		
1.4		**Year of Manufacture (must be a recent model, not more than 5 years model)**		
1.5		**Delivery period (must deliver equipment within 6 months of receiving the purchase order)**		
1.6		**LIFESPAN OF THE EQUIPMENT** The bidder must indicate the expected life of their offered unit (unit must last for min 10 years)		
2		**DITITAL FLUOROSCOPY GENERATOR**		
2.1		Generator must be powerful enough to perform real time imaging of the following cases: (All patients) Barium Enema Barium Swallow Barium Meal Loopogram HSG VCU Venogram Sinogram Sialogram Ductogram		
2.2		Micro-processor controlled high frequency generator with nominal rating: Minimum 80Kw		
2.3		voltage stabilizer for the screening machine		
2.4		UPS with power supply of min 30min to the workstation.		
2,5		The internal power supply of the system must have an integrated voltage stabilizer.		
2,6		Shortest exposure time must be +/-1msec.		
2,7		The tube current must be able to achieve 800mA at 100kV		

2,8		Fluoroscopic programmed radiography must be possible for all protocols.		
2,9		Auto-setting of all parameters of min 20 different examinations.		
2,10		Anatomical programming must be included.		
2,11		Customizable anatomical programmes.		
2,12		Pulsed fluoroscopy for dose reduction must be available.		
2,13		Pulse frequencies available for pulsed fluoroscopy (in pulses per second).		
2,14		Automatic mains compensation capability.		
2,15		Self-check of all generator functions must be included.		
2,16		An integrated computerized operator console must be included. A second in-room console also included.		
2,17		The x-ray generator and table system must have AEC built into the system.		
2,18		The x-ray generator must be delivered with a set of matching high tension cables.		
2,19		The x-ray generator and x-ray tube unit must have a rapid starter unit ensuring anode rotation of min 8000 RPM.		
2,2		The system must be fitted with a dose measuring chamber (DAP meter) that includes skin dose equivalent measurements.		
2,21		Available radiation reduction software programs and hardware techniques (copper filters, grids, etcetera)		
2,22		An automatic collimator with full field and laser line centering light must be available for the positioning of the patient.		
2,23		An automatic collimator must be provided with full control from the remote table side control and the control room console.		
2,24		Electrical safety conforms to standards for electrical safety IEC-60601		
3		**X-RAY TUBE**		
3.1		Tube assembly unit consisting of protective housing and X-ray tube for 150 kV nominal voltage		
3.1.1		High speed X-Ray tube with anode speed rotation of minimum 9000 rpm: X-ray tube must be synchronized with fixed detector in the table.		
3.1.2		Integrated thermal monitoring device and overpressure security device in the X-ray protective housing		
3.2		Dual focus with ratings compatible with the offered generator.		
3.3		Large focus, state in mm.		
3.4		Small focus, state in mm.		
3.5		Anode material to be tungsten compound with a maximum anode heat storage capacity of +/-600kHU.		
3.6		State method used to prevent tube over-heating.		
3.7		Anode heat dissipation must be min 81kHU/min.		
3.8		State method used to help anode heat dissipation kHU/min.		
3.9		State details of the X-Ray tube cooling method used.		
3.10		Short term rating must be +/-81kW.		
3.11		Set of high tension cables to suit the installation.		
3.12		Incorporate heat cooling system and display on control panel or display monitor.		
3.13		Tube overload protection must be incorporated into the system.		
3.14		Provide details of inherent and added filtration.		
3.15		Min mas 0.5mas, State Max mas.		
3.16		State shortest exposure time with and without the AEC.		
3.17		State max frame rate.		
4		**Remote controlled table bed**		
4.1		Remote controlled table with synchronized flat panel digital detector and x-ray tube.		
4.2		Motorized table angulation: +90° to -25° (to accommodate Erect exams and Trendelenburg position). Tolerance will only be accepted for the minus 25 degrees that is higher than -25. (state)		
4.3		The table **MUST** tilt to the Trendelenburg position (synced with the tube and detector).		
4.4		Foot Rest of the table must be able to take patient weight of Min 200kg on erect, and bed must be able to take 230kg or more on supine. (state)		

4.5		The table must be able to move up and down.		
4.6		The table must be of a smooth and easy to clean construction.		
4.7		Table top and mattress provided must be X-ray translucent.		
4.8		Table top dimensions must be: +/-225cm (L) x +/-81cm (W). Provide if table top dimensions will be able to accommodate large patients.		
4.9		The table must have a lockable and adjustable footrest.		
4.10		Table top movement synced with the 43x43 detector movements detailed as follows:		
4.10.1		Transverse table top movement min 36 cm.		
4.10.2		Longitudinal patient coverage min 140cm.		
4.10.3		The Source to Image Distance (SID) must be from 110cm to a max 180cm. The max SID must be min 150cm to max 180cm.		
4.11		Table height at lowest level must be ± 60cm.		
4.12		Motorized tube angulation must be min 35° cranial and 35° caudal.		
4.13		Tube angulation speed variable, min 10°/sec.		
4.14		An automatic collimator system must be included.		
4.15		The remote control panel must be fully integrated and include controls for generator, image acquisition and tabletop.		
4.16		All relevant generator and system information must be displayed on monitor or control panel.		
4.17		Controls for table top / X-ray tube movement must be available at the table side and the remote panel		
4.18		Collision sensors for patient safety must be incorporated within the system.		
4.19		The following table accessories must be included:-		
4.19.1		Shoulder rests for the Trendelenburg position.		
4.19.2		Radioluscent, high quality mattress.		
4.19.3		Hand grips		
4.19.4		Foot rest		
4.19.5		Compression cone		
4.19.6		Compensation filter pad for peripheral studies		
4.20		Scatter Radiation Grid, removable. State grid details and technology used to increase image quality and reduce noise.		
4.21		Tableside controls: -Integrated in table all motorized system movements -Radiation limit. -Light localizer primary collimator. -Patient transfer / CPR position. -Patient transfer/upright tabletop. -Display tilting angle. -Display projection angle.		
5		**Fixed Detector: Direct Digital Flat Panel.**		
5.1		A large field direct digital flat panel with a MIN input field of 43 x 43 cm is required. MIN active detector area: 43 cm by 43 cm (17" x 17").		
5.2		Direct conversion method is required.		
5.3		Technology: Cesium iodide scintillator, amorphous silicon or similar material that is rigid and produces quality images.		
5.4		Detector matrix dimension must be Min 2048 x 2048.		
5.5		Detector matrix of Min 16bit pixel depth / Gray scales per pixel.		
5.6		Processor matrix of Min 2048 x 2048.		
5.7		Resolution of Minimum 3.2lp/mm.		
5.8		The pixel size of Max 160µm.		
5.9		DQE must be minimum 60% at 0lp/mm		
5.10		MTF of Min 55% at 1lp/mm.		
5.11		State how your detector is able to produce high quality images both in real time screening and exposed images		
5.12		State Zoom 1, 2 and 3 cm/matix		
6		**Television system and display television monitor**		
6.1		Two high resolution TFT LCD monitors, Min 21 inch		
6.2		Monitors mounted on a height adjustable arm, Or ceiling mounted in the examination room also height adjustable, Or on a movable trolley.		

6.3		One 21 inch high line-rate TFT LCD monitor to be supplied at the control desk.		
6.4		All three monitors must have a resolution of 1024 x 1024 or higher.		
6.5		Automatic brightness control to be included.		
6.6		Monitor output brightness of all monitors to be a minimum of 150cd/m².		
6.7		The measuring fields must be graphically displayed over the LIH image.		
7		**Operator Console**		
7.1		The system must have a touch screen operator console or equivalent.		
7.2		There must be a built in keyboard with all the operating features applicable to the system for movement of bed, exposing, etc		
7.3		Operator mouse and keyboard must be included.		
7.4		**Second remote control console including trolley available in the exam room**		
7.4.1		For operating the entire radiography system,		
7.4.2		Integrated in the system		
7.4.3		Supporting imaging system using a joystick for system movements.		
7.4.4		Operate X-ray parameters and image system functions.		
8		**Digital Image Acquisition and Processing System**		
8.1		A digital imaging system suitable for general fluorography.		
8.2		Must have digital acquisition matrix		
8.3		Digital radiography: Minimum of 2048 x 2048 (2 Kilo Matrix), 16 bit, 0.5 to 7.5 frames / second (FPS).		
8.4		Digital fluoroscopy must be possible at 1024 x 1024, 16 bit, maximum 30 FPS.		
8.5		Minimum of 3 pulsed fluoroscopy modes must be available.		
8.6		Magnification/Zoom modes must be available.		
8.7		Single shot exposures must be possible.		
8.8		Last image hold function.		
8.9		Storage capacity of min 15 000 images at highest resolution must be available. State storage capacity of hard disk drive.		
8.10		Separate storage of min 3000 serial and min 600 spot images in 1024 x 1024 matrix on USB OR CD-R must be possible.		
8.11		Instant transfer of fluoroscopy image, both single image and dynamic, to digital storage must be possible.		
8.12		State speed storage		
8.13		Provide DICOM 3 conformance statement		
8.14		Interface DICOM: "Modality Worklist"		
8.15		Autotransfer of images to PACS system, without extra cost to end-user must be possible.		
8.16		DICOM Print must be possible		
8.17		Interface DICOM: "Send as SCU"		
8.18		DICOM MPPS		
8.19		DICOM Media on CD-R		
8.20		DICOM Image Export		
8.21		A reject / retake analysis software package must be included in the tender price. This software package must be able to analyse and provide calculations as raw data results of reject / repeat analysis.		
8.22		CD-R for backup, inclusive of archiving software. This must be enabled (ready for use).		
8.23		Connection for sending images to a laser imager must utilize a digital or DICOM printing environment.		
8.24		**Functionality must also include:-**		
8.24.1		Measuring of distance, angle and area.		
8.24.2		Gray scale inversion.		
8.24.3		Window and centre control.		
8.24.4		Text annotation.		
8.24.5		Up to X2 zoom facility required complete with scroll, zoom and cine loop display.		
8.24.6		Horizontal (R/L) and vertical (up/down) image flip.		
8.24.7		Gamma curve selection.		

8.24.8		4, 8 and 16 images on 1 multi-frame display with study / series overview. State your series overview if different and better.		
8.24.9		Split display for reference image comparison on the second monitor.		
8.24.10		Image review display must include cine loop, playback of sequences at acquisition speed and manual image browsing.		
8.25		Digital real-time image acquisition and processing system for use in digital fluororadiography (DR).		
8.26		Digital angiography (DA).		
8.27		Digital subtraction angiography (DSA*).		
8.28		Image scrolling and series scrolling		
8.29		Manual and automatic electronic collimation.		
8.30		Radiation free object positioning (position patient without screening)		
9		**Radiation Protection**		
9.1		The system must have dose reduction mechanisms including software.		
9.2		The following phantoms for QC on DDR must be included:		
9.2.1		TOR RAD software		
9.2.2		SMPTE / TG18-QC software		
9.2.3		1mm thick Copper plate (15cm x 15cm).		
9.2.4		The system must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
9.2.5		A radiation report must be automatically generated and transferable via DICOM Send.		
9.2.6		Patient pat slide,		
9.2.7		HSG lamp,		
9.2.8		Sialogram (Head lamp),		
9.3		Acceptance testing must be performed as part of the installation.		
9.4		Lead Glass window to be installed as per room requirement.		
9.5		Safety aspects of Radiation dosage leakage should be spelt out.		
9.6		DB boards and electrical filters to be installed.		
9.7		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure.		
9.8		X-ray Warning Notice for display at the X-ray Room entrance.		
9.9		Lead Glass window to be installed as per room requirement.		
9.10		Safety aspects of Radiation dosage leakage should be spelt out.		
10		**Room Alterations**		
10.1		Bid must include all room alterations		
10.2		Bidder must include any air conditioning that is considered necessary for o ptimal functioning of the unit.		
10.3		Any such air conditioning must be covered by the guarantee bided for on the unit and servicing of the air conditioning units for the guarantee period and must be included in the bid price		
10.4		The air conditioner must also be included in the maintenance plan.		
11		**Cybersecurity and Dicom printing**		
11.1		Maintenance-free malware protection of operating system and other third-party software (protection from cyber-attacks)		
11.2		Holistic security concept		
11.3		Encrypted patient data storage		
11.4		Dicom Laser Printer:		
11.4.1		Name, make and model of laser printer:		
11.4.2		Is film available on RT21 transversal contract?		
11.4.3		Number of films per box, price of the 1x box		
11.4.4		Film distributer, registered on CSD.		
12		**Image on Acquisition Station**		
12.1		The radiologist workstation shall consist of two min 3 megapixels medical grade diagnostic monitors.		
12.2		Window width and level with fine adjustment tool must be available.		
12.3		The following image processing must be possible on the workstation, Image display:		
12.3.1		- Freely selectable screen layout		
12.3.2		- Windows settings (contrast and brightness setting)		
12.3.3		- Magnification, stepped and dynamic zoom		
12.3.4		- Image inversion (black/white)		
12.5		Ability to cross reference		

12.6		Roaming of image		
12.7		Image Mirrored		
12.8		Edge enhancement		
12.9		ROI		
12.10		Add a text note		
12.11		Image evaluation		
12.12		True Size		
12.13		View Actual Pixels		
12.14		The demographic patient data can be entered manually or via Work list.		
12.15		Retrieval of images from CD, DVD or PACS or USB 2.0 Port		
12.16		The workstation should be fully DICOM compatible		
13		**WARRANTY, SERVICE AND MAINTENANCE**		
13.1		Bidders must supply a twenty-four-month warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, BUT NOT LIMITED TO, amongst others, ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling and accommodation. The two-year warranty must also include all quality checks and quality assurance requirements, including all required calibrations.		
		Please be aware, during this period, the contract binds the service provider to ensure that the machine is upkept and always in working order.		
13.2		The two-year warranty must be included in the unit price of the equipment. The purchase pricing schedule must be completed in full.		
13.3		Bidders must supply an all-inclusive, fully comprehensive five-year preventative maintenance, service and repair contract covering all equipment, hardware and software. This contract would cover, but not be limited to the following: ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling, accommodation, service and maintenance. The five-year maintenance plan must also include all quality checks and quality assurance requirements, including all required calibrations. 98% Uptime must be guaranteed, **and a penalty clause will be stipulated in the service level agreement.**		
13.4		Spare parts must be available within at the most three working days – state how that will be achieved		
13.5		Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.		
14		**TRAINING**		
14.1		User training must be provided by the successful bidder in the operation of the unit at no extra cost to the final bid price. **Please provide a detailed training plan with follow-up training.**		
15		**MANUALS**		
15.1		The following shall be provided:		
15.2		Complete operator/user manuals		
15.3		DICOM conformance statements		
15.4		Quality assurance manuals		
15.5		Service manuals with full maintenance procedures, parts lists, system diagrams and electrical, mechanical and pneumatic schematics		
15.6		These manuals may be provided in electronic format		
15,7		The successful bidder shall provide updates and revisions of the manuals at no extra charge for the lifetime of the equipment		
16		**OPTIONS**		
16,1		List of priced options (in the price schedule)		
16,1		Provide free options that come with the machine		

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APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

FLOOR MOUNTED DDR X-RAY MACHINE WITH BED BUCKY AND ERECT BUCKY AND 2 FLAT PANEL DETECTORS.

	FLOOR MOUNTED DDR X-RAY MACHINE WITH BED AND ERECT BUCKY AND 2 FLAT PANEL DETECTORS	SPECIFICATIONS	Complies Yes/No	*Provide your detailed answers in this column. (where requested)*
1		DIGITAL X-RAY UNIT SYSTEM		
1.1		The system must be capable of performing all general radiographic examinations of adults and children		
1.2		The system must be configured with the x-ray tube affixed to a floor mounted tube stand, a bucky table and a fixed vertical bucky stand combination.		
1.3		The system must incorporate two flat panel digital detectors that must fit into the table bucky and the erect bucky, each sized between 35cm X 43cm AND 43cm x 43 cm range.		
1.4		Fixed erect , removable supine an option		
1.5		System must include a minimum of LCD 19 inch sized, flat screen colour monitor for operators console / acquisition review station.		
1.6		UPS provided to be mounted on a bracket/cabinet, not to be placed directly on the floor.		
1.7		The system must have removable grids.		
1.8		A wall mounted hanger/cabinet for the storage of removable grids and detector must be provided.		
2		X-RAY GENERATOR		
2.1		Generator should be of latest technology with high frequency and high speed starter and a power output of min 60kW		
2.2		A monitoring and display for heat status must be provided.		
2.3		AEC Functionality with 3-field ionization chamber.		
2.4		APR Functionality (Anatomical programming).		

2.5		Minimum of 600mA at 100kV. State maximum mA output at 100 kV according to IEC60601-2-7		
2.6		Selectable kV range of 40-150 kVp in.		
2.7		The system must have selectable mAs.		
2.8		Shortest exposure time with AEC.		
2.9		Automatic mains compensation capability must be included.		
3		**X-RAY TUBE AFFIXED TO FLOOR MOUNTED STAND**		
3.1		X-ray tube should be a rotating anode high speed, compatible with both detectors. State details of the tube material used.		
3.2		Dual focal spot (small and large focus sizes) must be provided. State nominal focal spot sizes and focal spot combinations according to IEC 60336 prescriptions.		
3.3		Real time of tube overloading and protection is required and must be displayed.		
3.4		Anode heat storage capacity must be minimum of 300 kHU. State yours		
3.5		Total inherent filtration at 70kV must be minimum 2.5mm Al (state your IEC 60601-1-3 Standard).		
3.6		Manual multileaf collimator with rotating flange collimator.		
3.7		Swivelling/rotation of collimator must be up to 45° relative to zero axis on either direction.		
3.8		Light localizer on / off switching		
3.9		Collimator must have electronic timer to terminate the light.		
3.10		State X-ray Tube rotation range on either sides from X-axis		
3.11		Variable SID of the system		
3.13		Free standing tube stand with rotational column design and telescopic tube arm movement,		
3.14		Column rotation around its own axis at must be up to 90 ° on either direction with a locking mechanism.		
3.17		The longitudinal rail extension set must have permanent stoppers / brackets at each end of the rail set, with shock absorbers to ensure the unit does not derail.		
3.18		Electromagnetic brakes with fully counter balanced mechanism.		
3.19		The digital display panel must additionally indicate the bucky table and the bucky wall stand symbol to show selection of either unit.		
3.20		Interlocking mechanism for at least 100cm, 115cm, 150cm and 180 cm SID. These distances must be electronically displayed on the x-ray tube /collimator housing.		

4		**RADIOGRAPHIC TABLE WITH WIRELESS DETECTOR**		
4.1		Motorized height-adjustable table.		
4.2		Minimum table height less than 55cm. State max height table and Min height table.		
4.6		Floating Tabletop with Radioluscent Mattress		
4.7		Table top to be easy to move.		
4.8		Built in tray/support for 35 cm x 43 cm digital detector and removable grid		
4.9		The digital flat panel detector must be fixed option.		
4.9.1		Table to accommodate a min 250kg		
4.9.2		Table length min 200cm		
4.9.3		Table width min 80cm		
4.9.4		Longitudinal and transverse tabletop movement.		
4.`10		Control of the table functions via footswitch		
4.11		The footswitch must be double tapped for activation.		
4.12		Electromagnetically released permanent brakes to be standard		
4.13		Emergency stop mechanism must be attached to the table.		
4.14		Removable compression band.		
4.15		Cassette / Detector holder for out of bucky work.		
5.		**VERTICAL STAND WITH DETECTOR UNIT / ERECT BUCKY WITH FIXED DETECTOR**		
5.1		Vertical stand fitted with a digital flat panel - detector and AEC measuring chambers displayed on erect stand.		
5.7		Built in tray/support for digital detector		
5.8		The digital flat panel detector must be fixed.		
5.9		Vertical height of stand must be minimum 200 cm.		
5.10		Range of vertical movements of bucky: minimum height +45 cm from the floor maximum height +180cm.		
5.11		Patient hand grips for arms above head and on side of detector holder.		
6		**TWO DIGITAL FLAT PANEL DETECTORS (FP)**		
6.1		Two Digital FP detectors of 35cm x 43cm to 43cm x 43 cm field size.		
6.2		Amorphous silicon with cesium iodide scintillator.		
6.3		Detectors must have a minimum acquisition depth of 14 bits and above grayscale.		
6.4		Pixel pitch must be max 160 micrometer (µm).		
6.5		Detector to have matrix in pixels of min 2000 x 2000		

6.6		We prefer fixed detectors. But for For Wireless and Removable Flat Panel Detector, include the following : -Wi-Fi and LAN capability of Wireless detector. - A tethered cable for wireless FP-detector option in case of Wi-Fi disruption or detector discharge. -The wireless detector must be able to trigger for acquisition without connectivity to the X-Ray generator to allow the wireless detector to be used in different areas. -Images must be stored on the system even during battery failure. -Battery pack. -Battery charger.		
6.7		DQE must be ≥ 60% @ 0 line pairs per millimeter / ≥ 50% @ 0.05 line pairs per millimeter / ≥ 40% @ 1 line pairs per millimeter (lp/mm).		
6.8		Description of the scatter radiation grids used in conjunction with the detectors.		
6.9		The data transmission / reading speed from exposure to preview should be max 5 seconds.		
6.10		The data transmission / reading speed from exposure to full image should be max 10 seconds.		
7		**OPERATOR CONSOLE**		
7.1		High resolution digital radiography system with DICOM network connection for image processing and image display on a preview monitor		
7.2		A diagnostic LCD ≥ 19 inch sized, flat screen colour monitor for the imaging workstation is required. Must be based on the latest flat panel detector technology for high image dynamics with excellent signal/noise ratio.		
7.3		Application and examination database sotfware included.		
7.8		Image processing software are included		
7.9		64 bit 3.2GHz i5 Core Dual Microprocessor or BETTER		
7.10		**RAM: min 8GB**		
7.11		64 bit Operating system included (Windows or Similar) OR BETTER		
7.12		Image storage capacity min 10 000 full format images on internal hard drive.		
7.13		No Autodeletion of images stored on internal hard drive. System to alert when near maximum storage capacity is reached.		
7.14		System must be DICOM compliant.		
7.15		System must be capable and ready for use at no additional costs for integration with -.		
7.15.1		HIS		
7.15.2		HMS		
7.15.3		RIS		
7.15.4		PACS		
7.16		DVD/CD Writer inclusive of software for functionality of the DVD/CD Writer.		
7.17		Virus free software.		
7.18		Ergonomic keyboard with mouse and function buttons.		
7.19		Memory stick support/USB PORT.		
7.20		Touch screen monitor.		

8		**USER INTERFACE**		
8.1		Patient data entering		
8.2		Menu		
8.3		Integrated generator operation		
8.4		Menu control		
8.5		Organ program selection		
8.6		Window position/width		
8.7		Horizontal/vertical image mirroring		
8.8		Image manipulation: rotation, cropping, contrast,brightness,sharpness, inversion		
8.9		Left/right, ap/pa working		
8.10		Configurable text annotation		
8.11		Filter selection for edge enhancement		
8.12		Filter selection for noise suppression		
8.13		Image pan and zoom capability		
8.14		measurement tools		
9		**APPLICATION AND EVALUATION PROGRAMS**		
9.1		Organ-related application program		
9.2		Post processing functionality		
9.3		Windowing (centre/width)		
9.4		Paging forward and back		
9.5		Multi-image display on the monitor (mosaic)		
9.6		Retro-collimation facilities (shutter)		
9.7		Image documentation in the background		
9.8		Multi-tasking technique.		
9.9		Edge enhancement		
9.10		Noise suppression		
9.11		pan, zoom and image manipulation		
9.12		Individual energy substraction programs provided		
10		**SYSTEM INTERFACE**		
10.1		Detector interface		
10.2		PACS ready		
10.3		Interface DICOM: "Basic Print"		
10.4		Interface DICOM: "Modality Worklist"		
10.5		Interface DICOM: "Send as SCU"		
10.6		Interface DICOM: "Storage"		
10.7		Interface DICOM "Image export/ transfer/query/retrieval to PACS/HIS/RIS		
10.8		Conformance Statement for all DICOM interfaces.		
10.9		Firewall protection		

10.10		The succesful bidder must ensure that the configuration between the processed images on the Digital Imaging Workstation and that transferred to the receivers of these images, such as PACS , Laser Printer , CD/DVD are properly calibrated/ reconfigured during installation, service and maintenance,repairs, and future software updates/upgrades .		
11		**RADIATION PROTECTION**		
11.1		The system must have the ability to display Exposure Indicator values (EI/ S-values), immediately after exposure.		
11.2		X-ray Warning Notice for display at the X-ray Room entrance (not branded).		
11.3		An advanced Retake / Reject / Repeat analysis software package that includes user defined analysis and calculations as well as rejections, must be provided for all procedures.		
11.4		The applicable systems must have an integrated Dose Area Product (DAP) meter that includes skin dose equivalent measurement functions.		
11.5		A radiation report (QA, QC and PM) must be automatically generated and transferable via DICOM.		
11.6		Image Quality Test Tools must be provided.		
12		**POWER SUPPLY**		
12.1		A True Online Uninterrupted Power Supply System (UPS system) must be offered for control console systems. The UPS support time must be min 30 minutes to enable proper shutdown of systems.		
12,2		Unit must be connected to main electricity supply and the generator backup.		
12,3		room alterations will be quoted after receiving the purchase order.		
12,4		unit must come with voltage stabiliser.		
13		**OPTIONAL ITEMS**		
13.1		An external hard drive of 1 TB, configured to store, transfer and print X-Ray images.		
13,2		**Mini PACS with 4 viewing stations and capacity to store more than 100 000 patients (price with free installation)**		

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ULTRASOUND MACHINE, HANDHELD, PORTABLE, HIGH END AND COMPACT.

Item	PORTABLE HIGH-END ULTRASOUND MACHINE	SPECIFICATIONS	Complies Yes/No	Comment (detailed answer where requested)
		A - Modality Details		
1		HAND HELD ULTRASOUND MACHINE		
1.1		Unit should offer minimum 17 inch LCD high resolution colour monitor with integrated keyboard (laptop type).		
1.2		The system should have a built-in UPS.		
2		THE MACHINE MUST BE CONFIGURABLE TO PERFORM THE FOLLOWING ULTRASOUND INVESTIGATIONS:		
2.1		Adult cardiac and paediatric		
2.2		Adult and paediatric transesophageal		
2.3		Stress echo		

2.4		Abdominal		
2.5		Paediatric		
2.6		Vascular		
2.7		Obstetrics		
2.8		Gynaecological		
2.9		Small parts		
2.10		Musculoskeletal		
2.11		Regional anaesthesia		
3		**IMAGING MODES**		
3.1		• 2D		
3.2		• M-mode		
3.3		• Anatomical M-mode		
3.4		• Color M-mode		
3.5		• Color Power doppler imaging		
3.6		• Pulsed wave (PW) Doppler		
3.7		• High Pulse Repetition Frequency (HPRF) PW Doppler		
3.8		• Continuous wave (CW) Doppler		
3.9		• Freehand 3D imaging (available as an option)		
3.10		•advanced quantification/ measurement software		
3.11		• Invert and color invert		
3.12		• Color compare mode		
3.13		• Dual mode		
3.14		• Duplex for simultaneous 2D and Doppler		
3.15		• Triplex for simultaneous 2D, Doppler, and color or color power Doppler.		
3.16		• 2D and flow optimization signal processing		

3.17		• Tissue harmonic imaging (THI)		
3.18		• Reconstructed zoom with pan		
3.19		• High definition write zoom		
3.20		• Trapezoidal imaging		
3.21		• Contrast imaging (as an option)		
3.22		• Adaptive Doppler		
3.23		• Color tissue Doppler imaging		
3.24		• Pulsed wave tissue Doppler imaging		
4		**2D GRAYSCALE**		
4.1		• Time Gain Compensation (TGC): pre-defined TGC curves optimized for consistently		
4.2		• User adjustable Lateral Gain Control (LGC)		
4.3		• High definition zoom concentrates all image processing power into a user-defined area of interest.		
4.4		• ability to combine high definition zoom with pan zoom		
4.5		• Cineloop image review		
4.6		• Selectable 2D compression settings		
4.7		• Sector size and steering control for sector and curved array		
5		**IMAGE FORMATS**		
5.1		• Dual imaging with either independent cineloop buffers or split screen imaging		
5.2		• Live compare		
5.3		• Minimum 256 Gray scale levels.		
5.4		Unit should be capable of offering a frame rate of minimum 400 frames per second.		
5.5		The colour frame rate should be min 400.		
6		**M-MODE**		

6.1		• Available on all imaging transducers		
6.2		• Selectable sweeping rates		
6.3		• Time markers: minimum of 0.2 seconds up to a maximum of 2.0 seconds		
6.4		• Acquisition zoom capability		
6.5		• Selectable display format prospective and retrospective		
6.6		• Cineloop review for retrospective analysis		
7		**ANATOMICAL M-MODE**		
7.1		• Available for all imaging transducers		
7.2		• Uses 2D image as a basis for M-mode analysis at a defined line, independent of transducer orientation		
7.3		• Anatomical M-mode trace can be generated or modified post freeze.		
8		**TISSUE DOPPLER IMAGING**		
8.1		• Allows high frame rate acquisition of tissue motion		
8.2		• Color gain, TGC, and LGC		
8.3		• minimum 15 color maps		
8.4		• Tissue velocity (6cm to 50cm/s)		
9		**PULSED WAVE DOPPLER**		
9.1		• Available on all imaging transducers		
9.2		• Adjustable sample volume size: (e.g. 0.5-20 mm).		
9.3		• Triplex / real time duplex mode of operation		
9.4		• Simultaneous 2D, color Doppler and pulsed wave Doppler (triplex)		
9.5		• automatic optimization button / knob - adjusts scale, baseline and doppler gain		

10		**CONTINUOUS WAVE DOPPLER AND SPECTRAL DOPPLER**		
10.1		• Steerable through 90° sector		
10.2		• Display annotations including: Doppler mode, scale (cm/sec), Ny quist limit, wall filter setting, gain, acoustic output status, sample volume size		
10.3		• Angle correction with automatic velocity scale adjustment		
10.4		• Adjustable velocity display ranges		
10.5		• Normal/invert display around horizontal zero line		
10.6		• Selectable sweep speeds		
10.7		• Selectable low-frequency signal filtering with adjustable wall filter settings		
10.8		• Selectable grayscale curve for optimal display		
10.9		• Selectable display format of prospective and retrospective		
10.10		• 256 Gray scale levels or more		
10.11		• Post-processing in Pulsed Wave (PW) frozen mode includes map, baseline,sweep speed, invert, compress, reject, and chroma		
11		**COLOR DOPPLER**		
11.1		• Adaptive mode adjusts Doppler frequency and sensitivity based on color ROI placement within image available on all imaging transducers.		
11.2		• Cineloop review with full playback control		
11.3		• Advanced motion suppression with intelligent algorithms; to eliminate color motion artifacts.		
11.4		• Trackball-controlled color region of interest: size and position		
11.5		• Maps, filters, color sensitivity, line density, smoothing, echo, color persistence, gain and Baseline optimized automatically by exam type or is user selectable.		
11.6		• Velocity and variance displays		
11.7		• Color invert in live and frozen imaging		

11.8		• User selectable smoothing control		
11.9		• User selectable persistence control		
11.10		• Color/2D line density control		
11.11		Tissue harmonic imaging available on all imaging transducers		
12		**COLOUR POWER DOPPLER**		
12.1		Directional power flow available		
12.2		• Available on all imaging transducers		
12.3		• Cineloop review		
12.4		• Multiple color maps		
12.5		• Individual controls for gain, Pulse Repetition Frequency (PRF), baseline, filters, sensitivity		
12.6		• Dynamic motion differentiation		
12.7		• Adjustable region of interest: size and position		
12.8		• User selectable Persistence button / knob.		
12.9		• User selectable Blending button / knob.		
13		**CONNECTIVITY**		
13.1		• One USB ports on control panel		
13.2		• Additional USB		
13.3		• Min 80 GB hard drive space		
13.4		• Internal slot-load CD/DVD RW drive		
13.5		• DICOM print, store, and storage commitment		
13.6		• DICOM structured reporting capability		
13.7		• Modality worklist		
13.8		• A DICOM images must exported with the DICOM reader.		
13.9		The DICOM conformance statement must be included.		

13.10		• Export data as PC compatible or DICOM files		
13.11		• Ethernet		

13.12		• B/W printers to be supplied.		
13.13		• The ultrasound unit must be DICOM and HL7 compliant and enabled to be PACS ready without any additional costs.		
14		**PROBES: THE FOLLOWING PROBES MUST BE INCLUDED IN THE PRICE. GIVE PRICES FOR INDIVIDUAL PROBES**		
14.1		The selected frequency of the imaging transducer must be displayed on the screen.		
14.2		Three transducers must be included and the end user must be able to select the final transducers (swapping of products/transducers and software to be allowed with equitable costs).		
14.3		The transducers selected by the end-user must be supplied with the relevant software.		
14.4		The standard and compatible software are the following in line with the transducers selected: small parts, vascular, breast, abdominal and obstretrics & gynaecology.		
14.5		The relevant and compatible software are the following in line with the transducers selected: MSK, TEE adult, TEE pediatric, pediatric TTE, adult TTE.		
14.6		Convex Probe (Curvilinear). (within 1-6 MHz)		
14.7		Microconvex for neonatal/ paediatrics. (standard 4-8)		
14.8		Microconvex Transvaginal/transrectal. The MHz range are stated (within 3-8 MHz)		
14.9		Linear probe (vascular) The MHz range are stated (4-12)		
14.10		Linear probe (MSK)The lower MHz range must be 5-6 MHz and the upper range must be between 14 and 21 MHz.		
14.11		Adult Cardiac Probe (standard 1-4MHz)		
14.12		Paediatric Cardiac Probe. (2-10 Mhz)		
14.13		TEE Probe, adult. The lower MHz range must be 2MHz and the upper range must be 9MHz.		

14.14		TEE Probe, pediatric. The lower MHz range must be 3MHz and the upper range must be 11MHz.		
15		**SOFTWARE**		
15.1		Compound Imaging (Cross Beam angles)		
15.2		Speckle Reduction (Minimum of 4-5 steps). Refines images (reduces noise).		
15.3		System must have software to enhance needle visualization during biopsy		
15.4		Measurement and Report software packages must be configurable		
15.6		Standard tools/software details, you can refer to brochure page number		
15.7		The standard software packages supplied must be fully upgradable		
15.8		Updating and upgrading all standard software packages during warranty and maintenance period must be included in the offer .It must be clearly outlined as a line item in the offer documentation.		
15.9		A rechargeable battery with a charger must be supplied.		
15.10		Fully charged battery must have an actual time use of one hour or more.		
15.11		The weight of the portable ultrasound unit must be max 5kg.		
15.16		A multi port (for transducer connectivity)		
15.17		Cart with castors with two wheel lock brakes		
15.18		A compact carry case with wheels for the ultrasound unit must be supplied.		
15.19		Paediatric and adult ECG cables (three lead) must be supplied.		
16		**OPTIONAL ITEMS**		
16.1		Any additional tools/software not included in the standard package must be clearly listed and priced.		
16.2		Elastography software		
16.3		3D software		
16.4		4D software		
16.5		• Freehand 3D imaging (available as an option)		
16.6		Hockey stick optional		

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X-RAY PAPER PRINTER

Item	X-RAY PAPER PRINTER	SPECIFICATIONS	Complies Yes/No	Comment (detailed answer where requested)
		Modality Details		
A1		**X-ray paper printer**		
1		An imaging printer with DICOM 3 connectivity or dry laser printing technology must be offered.		
2		Toner based engine with tandem printing technology is required.		
3		The DICOM 3 basic Grayscale/Color printer must be offered with multi-sized daylight paper loader.		
4		The printer must accommodate 2 x Paper sizes (A4 & A3).		
5		Minimum 2 drawers are required for different film sizes.		
6		A bin sorter must be included.		
7		The printer must be able to connect five (5) or more imaging modalities.		
8		The printer must able to print high quality images for Nuclear Medicine, Ultrasound, MRI/CT Scanner, general X-rays, mammography and fluoroscopy		
9		UPS on-line (in series connection to main power supply) / on line (uninterruptable power supply unit) for the workstation, must be included in the tender price.		
10		The support time of UPS should not be less than 30 minutes after main power interruption.		

11		A fully integrated DICOM 3 connectivity with following functionalities included: basic grey scale, colour print, query, accepting DICOM 3 print class data, basic annotation, verification, worklist management/ queue management, transfer of images. State details of various DICOM Connectivity SCP Class		
12		The standard Printer Resolution is 100 Microns, state yours. Various printer resolutions must be selectable.		
13		A minimum throughput of at least one hundred and twenty (120).		
14		Time to print first print must be 60 seconds or less for an A3 and A4 size.		
15		Printer must have an automated image quality control that is configurable to meet user needs and ensures consistency from print to print.		
16		Standard D-max value is 3.3		
17		The system must function under optimal environmental conditions.		
18		The laser imager must be capable of inputs from up to 3 different modalities or diagnostic work stations.		
19		The printer must be callibrated and configured to all connected modalities.		
20		The printer must be able to handle paper weight of 64gsm to 300gsm for all sizes		
21		The printing memory must be a minimum of 128MB.		
22		The printer must include an on line densitometer for constant image quality assessment, including self-calibration and optical density consistency as per Radiation Control mandatory QC or equivalent system.		
23		Integrated interface must support printing from DICOM 3 print modalities.		
24		The printer must have paper jam user correctable capability. State details of your printer corrective mechanism.		
25		The internal power supply of the system must have an integrated voltage stabilizer.		
26		The configuration between the transmission system such as CR System/Direct Digital System or PACS and the Laser Printer as the receiver of images, must be properly calibrated during installation, service and maintenance, and software upgrades processess .		
27		State price of the paper (A3 & A4)		
28		State price of the printer INK.		

29		State where both paper and ink can be purchased.		
30		Printer must be supplied with free 2x A3 x-ray paper, 2x A4 x-ray paper and 2x printer ink		
31		**OPTIONS (PRICED)**		
31.1		Printer paper		
31.2		Printer ink		
31.3		Extra UPS		
31.4		CD writer		

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APPOINTMENT OF SERVICE PROVIDERS FOR SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND MAINTENANCE OF IMAGING RADIOLOGY EQUIPMENT ITEMS FOR VARIOUS INSTITUTIONS OF THE NORTH WEST PROVINCE FOR A PERIOD OF FORTY-EIGHT (48) MONTHS.

SINGLE SLOT CR READER

ITEMS	SINGLE SLOT CR READER	SPECIFICATIONS	YES / NO	*Provide your detailed answers in this column.(where requested)*
1		**CR READERS**		
1.1		Provide Single slot Computerised Readers for radiology department		
		The System shall have an internal barcode reader or some other sort of identification method for specific imaging plate identification. This is needed when a faulty Imaging plate is to be identified.		
1.2		**Brand name of unit on offer**		
1.3		**MODEL (LATEST MODEL) (Year of Manufacture)**		
1.4		**DELIVERY PERIOD (deliver within 4 months of receiving the order)**		
1.5		**LIFESPAN OF THE EQUIPMENT**		
		The bidder must indicate the expected life of their offered unit (must be more than 10 years)		

1.6		The bidder must provide all relevant and valid licensing, CE markings/ FDA certification or any other certification documents for every piece of equipment on offer. (Please confirm)		
1.7		The bidder must include DICOM 3 or latest compatibility and full activation in the software package as standard.		
1.8		The bidder must provide a 24 month warranty period; and must provide a detailed warranty proposal and fully comprehensive and detailed 5 year maintenance plan		
2		**MAIN UNIT**		
2.1		The system shall provide a mechanism to support quality review of Computerised Radiography images and permit a radiographer to take remedial action. Remedial actions include image flip (top to bottom, left to right), image rotation, window width and level, image rejection (deletion from the exam) and image reprocessing.		
2.2		The system must also cater for magnification of viewing and printing, multiple print formats, image labelling, image re-processing, equivalent film speed adjustment by manual and automatic means, Variable edge enhancement, Dynamic range control, Flexible noise control, multiple tissue display.		
2.3		The system shall provide Dose Monitoring Software for the CR. for quality assurance and control.		
2.4		The CR unit shall allow the full 12-bit image for exporting.		
2.5		The CR resolution for a 35 X 43 cm cassette min 2320 X 2826 pixels		
2.6		The CR digitizer shall support up to 20pixels/mm for extremities and Mammography.		
2.7		The CR system shall be capable of recording two (2) images on one cassette and process each image separately.		
2.8		The CR shall be capable of routing images to a DICOM review station. Inclusion DICOM store modules are mandatory. The vendor must make sure that the fully Processed image together with annotations can be sent to the PACS system and not only the raw image.		
2.9		The bidder shall describe how the CR system is incorporated in a DICOM network *(The CR system should be re-configurable at any time by the use of "Systems Configuration File", should this be necessarv. Describe briefly how this will be achieved).*		
2.10		The system shall provide a means of identifying the cassette with the patient demographics manually for unscheduled exams.		

2.11		The patient demographics must be merged with the cassette information by a contact-less embedded chip in the cassette via a cassette reader / writer. The Identification of the cassettes must be performed at the ID stations. Barcode mechanisms or combined system will be utilised for all image manipulation and processing.		

2.12		The system shall include two ID stations, which must include a software module allowing the CR system a means of connecting to a RIS / HIS connection. Each of the ID stations shall allow viewing of the images for QC work, printing, routing and annotations of the studies. Each station shall have a processing monitor primary touch screen combined with a simple user-friendly interface that is not dependant on the Operating System or computer literacy.		
2.13		The Patient Identification software interface should have the means to be fully customizable, in terms of available identification fields.		
2.14		The CR system must include an Uninterrupted Power Supply (UPS) for image and database security during a power failure as well as to filter any power fluctuations.		
2.16		The normal sizes of cassettes must be supported.		
2.17		The following cassettes with IP plates must be included: · 2 X 18 x 24cm Cassettes with screens · 2 X 24 x 30cm Cassettes with screens; · 2 X 35 x 43cm Cassettes with screens		
2.18		The cassettes must be of robust manufacture and functional.		
2.19		The cassettes are to be fully repairable in the event of damage.		
2.20		The Imaging Plate (IP) should be individually replaceable, in the event of damage		
2.21		The CR system must support multi-format printing on film (i.e. Printing of one or more images through standard supplied templates on one piece of film) and enable the operator to print to the laser camera using the DICOM 3(DICOM PRINT).		
2.22		The DICOM Modality work list shall be included in the console. This shall allow for display of the examinations scheduled for a specific study on a specific date and must be available as a global network query.		
2.23		The CR shall have full post processing functionality to ensure that images can be prepared for the Radiologist as well as for printing and distribution.		
2.24		The System shall be able to burn CD or send images to USB with all patient images and report on as well as DICOM viewer that will automatically loaded when inserted into a PC.		
2.26		The system shall have ability to store minimum 10 000 images local storage.		
3		**UNINTERRUPTABLE POWER SUPPLY**		

3,1		The bidder must include a UPS system with the unit, with at least 15 minutes backup time.		
4		**WARRANTY, SERVICE AND MAINTENANCE**		
4.1		Bidders must supply a twenty-four-month warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, BUT NOT LIMITED TO, amongst others, ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling and accommodation. The two-year warranty must also include all quality checks and quality assurance requirements, including all required calibrations.		
		A fully comprehensive preventative maintenance, service and repair plan including all costs must be included in the two-year warranty. Software updates and upgrades to be included. 98% Uptime must be guaranteed.		
		This two-year warranty will commence after formal acceptance and handover of the equipment and successful testing and acceptance.		
4.2		The two-year warranty must be included in the unit price of the equipment. The purchase pricing schedule must be completed in full.		
4.3		Spare parts must be available within at the most three working days –		
4.4		Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.		
5		**TRAINING**		
5.1		User training must be provided by the successful bidder in the operation of the unit at no extra cost to the final bid price. **Please provide a detailed training plan with follow-up training**.		
6		**MANUALS (that must come with the machine)**		
6.1		Complete operator/user manuals		
6.2		DICOM conformance statements		
6.3		Quality assurance manuals		
6.4		Service manuals with full maintenance procedures, parts lists, system diagrams and electrical, mechanical and pneumatic schematics		
7		**OPTIONS**		
7,1		**price of each cassette size**		
7,2		5KVA UPS (PRICE)		

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1.3		**MODEL (LATEST MODEL) (Year of Manufacture)**		
1.4		**DELIVERY PERIOD (deliver within 4 months of receiving the order)**		
1.5		**LIFESPAN OF THE EQUIPMENT**		
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2.9		The bidder shall describe how the CR system is incorporated in a DICOM network *(The CR system should be re-configurable at any time by the use of "Systems Configuration File", should this be necessarv. Describe briefly how this will be achieved).*		
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2.26		The system shall have ability to store minimum 10 000 images local storage.		
3		**UNINTERRUPTABLE POWER SUPPLY**		

3,1		The bidder must include a UPS system with the unit, with at least 15 minutes backup time.		
4		**WARRANTY, SERVICE AND MAINTENANCE**		
4.1		Bidders must supply a twenty-four-month warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, BUT NOT LIMITED TO, amongst others, ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling and accommodation. The two-year warranty must also include all quality checks and quality assurance requirements, including all required calibrations.		
		A fully comprehensive preventative maintenance, service and repair plan including all costs must be included in the two-year warranty. Software updates and upgrades to be included. 98% Uptime must be guaranteed.		
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4.3		Spare parts must be available within at the most three working days –		
4.4		Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.		
5		**TRAINING**		
5.1		User training must be provided by the successful bidder in the operation of the unit at no extra cost to the final bid price. **Please provide a detailed training plan with follow-up training.**		
6		**MANUALS (that must come with the machine)**		
6.1		Complete operator/user manuals		
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7		**OPTIONS**		
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CEILING SUSPENED X-RAY TUBE DDR MACHINE WITH SUPINE BUCKY TABLE, VERTICAL BUCKY STAND AND TWO DIGITAL FLAT PANEL DETECTORS.

	CEILING SUSPENDED DDR X-RAY MACHINE WITH ERECT AND BED BUCKY AND 2 FLAT PANEL DETECTORS	SPECIFICATIONS	Complies Yes/No	*Provide your detailed answers in this column. (where requested)*
1		**DDR CEILING SUSPENDED UNIT**		
1.1		The digital system to provide full coverage of the patient with all horizontal and vertical projections for general x-ray examinations and *trauma patients of both adult and paediatric.*		
1.2		**Brand name of unit on offer**		
1.3		**MODEL (not more than 5 year model)**		
1.4		**DELIVERY PERIOD (deliver within 6 month of receiving the purchase order)**		
1.5		**LIFESPAN OF THE EQUIPMENT** The bidder must indicate the expected life of their offered unit (Must be more than 10 years)		
2		**MAIN UNIT**		
2.1		X-Ray Generator		
2.2		X-Ray tube, cables and collimators		
2.3		Ceiling suspension		
2.4		Bucky Table and Vertical Bucky		
2.5		Two minimum size 35cm x 43cm Flat panel detectors		

2.6		UPS		
3		**X-RAY GENERATOR**		
3.1		Microprocessor controlled high frequency generator. With self-diagnostic function and overload protection and error code read out.		
3.2		Nominal rating to be minimum 65kV and the system must be 3 phase.		
3.3		The kV range must be from minimum 40kv, selectable in one KV steps. State the KV increment and max KV possible		
3.4		State maximum mA at the following kV values:		
3.4.1		70 Kv		
3.4.2		100 kV		
3.4.3		125 kV		
3.4.4		150 kV		
3.5		Exposure times max 5 sec.		
3.6		Overload protection. There must be an indicator to show the tube capacity.		
3.7		Fault code signalling system to be standard.		
3.8		Exposure techniques such as:		
		KV and AEC,		
		KV and MAs as well as		
		KV, MA and time selection must be provided.		
3.9		The system must have a manual selection for large and small focus and be automatically selected by way of exposure parameters.		
3.10		Automatic mains compensation to be provided.		
3.11		Continuous self-check of all generator functions.		
3.12		Anatomical programming facilities		
3.13		The unit must have an automatic exposure control, including three field ionization chambers for both table and erect stand.		
3.14		The generator must have a high-speed starter unit to drive the x-ray tube.		
3.15		Pre-programmed anatomical facility with determined exposures.		
3.16		The system must have a method of measuring and recording patient absorbed dose. DAP		
3.17		The system must have a method of recording repeat/reject analysis selected by technologist.		
		Describe the method of reporting and exporting this data		
4		**X-RAY TUBE & COLLIMATORS**		
4.1		A high-speed anode rotation X-Ray tube must be supplied.		
4.2		Dual focus with small and large focus with ratings compatible with the offered generator.		
4.3		State focal sizes in mm.		
4.4		Anode material to be tungsten rhenium molybdenum compound with high storage capacity.		

4.5		Tube anode heating capacity: Minimum 300KHU		
4.6		Set of high-tension cables to suit the installation to be provided. (do a nice job by covering them please).		
4.7		The anode rotation speed must be minimum 8000rpm.		
4.8		The tube must be provided with adequate cooling facilities to promote continuous work.		
4.9		A full size multi-leaf collimator unit with integrated halogen localizer lamp and centring lamp to be offered.		

4.9.1		There must be a light beam controlled by means of electronic timer, switching the light off within 60 seconds.		
4.9.2		The localization lamp must be minimum 160lux. (we want a bright lamp for ease of work)		
4.9.3		A rotation range is to be provided with the unit for full rotation of the collimator on the x-ray tube unit range. State the rotation		
4.9.4		The x-ray light field correlation to be within 2cm on the 43 x 43cm field at 100cm.		
4.`10		Retractable tape measure for easy SID measurement. (measuring tape and electronic indicator on tube housing)		
5		**CEILING SUSPENSION FOR TUBE**		
5.1		Ceiling suspended column for ceiling mounted tube must be provided.		
5.2		Longitudinal operating range to be at least +/- 3.5meter to cover the room.		
5.3		Transverse travel to be at least: +/- 3 meters to cover the room.		
5.4		Vertical travel to be: minimum 1.5 meters		
5.5		Holder for tube assembly to allow rotation of 4 x 90° about the vertical axis and 2 x 90° about the horizontal axis. Free movement in 360 degrees for quick positioning is required.		
5.6		Handlebar with electro-magnetic lock controls for all possible tube movements including rotation about the vertical axis.		
5.7		Control switches at the back of the column should be available to be able to work from any side of the patient. It must be possible to lock all movements with electromagnetic brakes.		
5.8		Color coding for ease of operation.		
5.9		Centring device in longitudinal and transverse direction.		
5.10		The unit must have APR (anatomical program radiograph) control with LCD display.		
6		**X-RAY EXAMINATION TABLE/BUCKY TABLE**		
6,1		A floating, radiolucent with a scratch resistant finish and flat tabletop, table for general radiography must be offered. Minimum loading capacity of 200kg must be possible.		
6.2		Tabletop to be approximately 750mm (width) x 2200mm length in size. The table must have electromagnetic brakes so that the table remains braked in the event of a power supply failure.		
6.3		The table must be electronically height adjustable with automatic F.F.D sensing for 100cm. Table height from ground to be 65cm or less.		
6.4		The table movement must have a safety mechanism for protection of patient and unit in the downward movement.		
6.5		Emergency button must be accessible and not protruding outside the table frame range.		

6.6		State the tabletop travel dimensions in both transverse and longitudinal planes		
6.7		A foot operated electromagnetic braking system must be integrated into the table.		
6.8		Three field automatic exposures device/control		
6.9		Covered radiolucent mattress. Mattress must be fluid and stain resistant		
6.10		The table assembly must include the following accessories:		
		Patient hand grips		
		Compression band		
		Lateral cassette/detector holder		
6.11		State whether the x-ray tube has auto centring over the Bucky (in transverse direction) after every exposure		
7		**ERECT DETECTOR BUCKY STAND**		
7.1		Fully digital wall mounted tilting Bucky stand.		
7.2		Built-in minimum size 35cm x 43cm fixed flat panel detector capable to take digital images in horizontal, vertical and oblique positions with suitable movements to allow for a complete range of exams from skull, skeletal body including spine, chest, weight-bearing knees and ankle joints.		
7.3		Must include Automatic Exposure Control with at least three fields.		
7.4		State the grid ratio and focus range, taking into consideration that horizontal examinations will be made		
7.5		It should have a vertical Bucky with oscillating/moving grid for chest radiography (grid ratio min 12:1)		
7.6		The vertical movement range should be min125 cm with the lowest point (from cassette centre to ground) being not more than 55 cm and the highest point being not less than 175 cm.		
7.7		The Bucky should have electromagnetic lock that allow for easy positioning.		
7,8		BUCKY TILTING MUST BE POSSIBLE		
7,9		Patient support for lateral chest examinations.		
		Interchangeable for both left and right lateral projections		
8		**DIGITAL FLAT PANEL DETECTORS**		
8.1		Two detectors to be provided, fixed detector in the vertical Bucky and detector in the table Bucky.		
		These to provide excellent ergonomics, ease of use and high-performance technical specifications.		
8.2		The detector must allow fast and efficient exposures as well as special angulations across the table.		

8.3		The active image size of the detectors must be minimum size 35 x 43cm to ensure high projection flexibility even with large patients.		
8.4		Digital detector of amorphous silicon and caesium iodide flat panel for excellent image quality even with low dose, is required.		
8.5		Image matrix size must be minimum 2800 pixels x 2400 pixels.		
8.6		The acquisition depth conversion must provide minimum 14 bits/pixel.		
8.7		Please state pixel size.		
8.8		The image resolution must be min 3.33 lp/mm.		
8.9		The sensitivity must range from speed 200rpm.		

9		**IMAGE PROCESSING**		
9.1		High resolution LCD monitors minimum 19" with good resolution.		
9.2		**The unit must have a RAM 8GB OR BETTER. OPERATING SYSTEM**		
9.3		The time required to display image on operators monitor must be 3 seconds or less		
9.4		**Image Workstation/Radiographer's console**		
9.4.1		The DR system must provide the ability to acquire appropriate patient and exam identification information from the RIS/HIS, via a DICOM (Digital Imaging Communication) "patient work list ".		
9.4.2		The Workstation must provide a mechanism to support quality review of DR images and permit a radiographer to take remedial actions. Remedial actions include image flip (top to bottom, left to right), image rotation, window width and level, image rejection (deletion from the exam) and image reprocessing.		
9.4.3		The workstation must also cater for magnification of viewing and printing, multiple print formats (printing of one or more images through standard supplied templates on one piece of film), image labeling, image QC control and post processing parameters.		
9.4.4		The DR system must be capable of routing images to PACS or any DICOM destination. Inclusion of DICOM store modules is mandatory. The bidder must make sure that the fully processed image together with annotations can be sent to the PACS system and not only the raw image.		
9.4.5		Printing to an existing DICOM dry printer must be possible from the radiographer's console.		
9.4.6		An automated as well as a manual shuttering system must be available.		
9.4.7		It must be possible to enter patient data manually for emergencies or when the network is down and must be done via a touch screen system that is integrated into the console.		
9.4.8		The workstation must automatically be able to send a selected study to a DICOM compatible CD/DVD writer		
9.4.9		The system must also provide the means of swapping patient images from one folder to the next, for example: patient name amendment if obvious errors are detected, free text annotation for entering the kilo Volts (kV) and milli Ampere (mA) and time of studies etc.		
9.5		Predefined anatomically specific processing sets; also manually customized to be possible		
9.6		DICOM grayscale display		
9.7		Fast Ethernet interface		
9.8		Fully customized patient worklist required		
9.9		Examination related pre-configured views to be possible		
9.10		The entire Local Area Network required for the system must be supplied and installed by the successful bidder		

9.11		Quality Control software to be included as a standard		
10.		**UNINTERRUPTABLE POWER SUPPLY FOR COMPUTERS –**		
10.1		UPS must be provided and included in the bid price to run the control panel computer for more than 30 min.		
11		**AIR CONDITIONING**		
11.1		Air conditioning must be supplied if needed to the room where image acquisition takes place and where the equipment will be installed.		
12		**POWER REQUIREMENTS**		
12.1		Bidders must state the power requirements for the system on offer.		
13.		**PACS CONNECTION**		
13.1		Unit must be ready to be connected to the existing PACS system.		
14.		**DICOM PROTOCOL**		
14.1		All data should be processed in DICOM 3 Format. Non DICOM Formats must be available for import/export.		
15		**UNLIMITED CAPACITY**		
15.1		The system must support network file systems and therefore can use unlimited storage capacity allowing for online archiving of all data generated in a facility.		
16.		**DICOM PAPER PRINTER**		
16.1		DICOM LAZER printer must have the ability to print both A3/A4 paper sizes		
16.2		State where the end-user will order the INK and Paper and if that company is registered on CSD.		
17		**DATA COMPRESSION**		
17.1		A fully configurable compression module supporting both lossless and lossy images must be supported based on UID for post-processing.		
18		**NATIVE DICOM 3**		
18.1		All data received via DICOM 3 Protocol must be stored in DICOM 3 Format.		
19		**EXPANDABLE RAID**		
19.1		Expansion modules must be able to be added to the RAID system. Please give available sizes as well as costs for these expansion modules.		
20		Bidder to state power requirements for the full solution on offer		

21		**WARRANTY, SERVICE AND MAINTENANCE**		
21.1		Bidders must supply a twenty-four-month warranty against poor workmanship and latent defects and parts. This must be all inclusive and include, BUT NOT LIMITED TO, amongst others, ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling and accommodation. The two-year warranty must also include all quality checks and quality assurance requirements, including all required calibrations.		
		A fully comprehensive preventative maintenance, service and repair plan including all costs must be included in the two-year warranty. Software updates and upgrades to be included. 98% Uptime must be guaranteed.		
		This two-year warranty will commence after formal acceptance and handover of the equipment and successful testing and acceptance.		
21.2		The two-year warranty must be included in the unit price of the equipment. The purchase pricing schedule must be completed in full.		
21.3		Bidders must supply an all-inclusive, fully comprehensive five-year preventative maintenance, service and repair contract covering all equipment, hardware and software. This contract would cover, but not be limited to the following: ALL PARTS (including, where appropriate, Consumables, X-Ray tubes and other glassware), labour, travelling, accommodation, service and maintenance. The five-year maintenance plan must also include all quality checks and quality assurance requirements, including all required calibrations. 98% Uptime must be guaranteed, and **a penalty clause will be stipulated in the service level agreement.**		
		This contract will commence after the two-year warranty period has expired. Software updates and upgrades to be included.		
21.4		Spare parts must be available within at the most three working days – state how that will be achieved		
21.5		Spare parts must be guaranteed available for the specified life of the equipment, with a minimum of ten years.		
22		**TRAINING**		
22.1		User training must be provided by the successful bidder in the operation of the unit at no extra cost to the final bid price. **Please provide a detailed training plan with follow-up training**.		
23		**MANUALS**		
23.1		The following shall be provided:		
23.1.1		Complete operator/user manuals		
23.1.2		DICOM conformance statements		
23.1.3		Quality assurance manuals		

23.1.4		Service manuals with full maintenance procedures, parts lists, system diagrams and electrical, mechanical and pneumatic schematics		
23.1.5		These manuals may be provided in electronic format		
24		**OPTIONS**		
24.1		MINI PACS WITH 4 VIEWING STATIONS (price)		
24,2		Price of wireless detector full with two batteries, charger and accessories		
24.2		MINI PACS WITH 8 VIEWING STATIONS (price)		

PART A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF HEALTH					
BID NUMBER:	**NWDOH 06/2026**	CLOSING DATE:	**22 APRIL 2026**	CLOSING TIME:	**11:00**
DESCRIPTION	Appointment of service providers for supply, delivery, installation, commissioning and maintenance of imaging radiology equipment items for various institutions of the North West Province for a period of forty-eight (48) months				

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT *(STREET ADDRESS)*

DEPARTMENT OF HEALTH NORTH WEST, GROUND FLOOR

NEW OFFICE PARK BUILDING,

3801 CORNER FIRST STREET AND SEKAME ROAD

MMABATHO, 2735

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		**TECHNICAL ENQUIRIES MAY BE DIRECTED TO:**	
CONTACT PERSON	**Ms T. Diphoko/ Ms Matshoba**	CONTACT PERSON	**Mr B. Khumalo**
TELEPHONE NUMBER	**018 391 4558/ 4443**	TELEPHONE NUMBER	**060 973 3456**
FACSIMILE NUMBER	**N/A**	FACSIMILE NUMBER	**N/A**
E-MAIL ADDRESS	diphokot@nwpg.gov.za	E-MAIL ADDRESS	bethuelkhumalo@nwpg.gov.za

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE			NUMBER	
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE			NUMBER	
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		**OR**	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] ☐ Yes ☐ No	

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐Yes ☐No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR **THE GOODS /SERVICES /WORKS OFFERED?**	☐Yes ☐No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO

IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

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: .....
(Proof of authority must be submitted e.g. company resolution)

DATE: .....

PRICING SCHEDULE – NON-FIRM PRICES (PURCHASES)

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.....DAYS FROM THE CLOSING DATE OF BID.

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

- 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

1. 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

2. 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.
(1-V)Pt	=	85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**
D1, D2..	=	Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1, D2...etc. must add up to 100%.
R1t, R2t.....	=	Index figure obtained from new index (depends on the number of factors used).
R1o, R2o	=	Index figure at time of bidding.
VPt	=	15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

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

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

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

4. 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

B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. 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=		

2. 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

SIGNATURE OF BIDDER:.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:.....

DATE:.....

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling 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

1 the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....

.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....

.....

3 DECLARATION

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

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or 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.

3.4 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.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring

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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.

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.

3.6 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

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

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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**

(*delete whichever is not applicable for this tender*).

a) The applicable preference point system for this tender is the 90/10 preference point system.

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	90
SPECIFIC GOALS	10
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

3.2.1. POINTS AWARDED FOR PRICE

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

80/20 **or** **90/10**

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

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.)

Specific Goals	Number of points allocated (90/10 system) (To be completed by the organ of state	Number of points claimed (90/10 system) (To be completed by the tenderer
B-BBEE Status level of Contributor	**5**	
1	5	
2	4	
3, 4, 5, 6, 7, 8 and Non-compliant contributor	0	
Enterprises located in a specific province for work to be done or services to be rendered in that area (Mandatory)	**3**	
Residing within the North West Province where the service is required.	03	
Residing outside the North West Province	0	
Designated Groups (any bid that meets 1 or more of the 5 will get the maximum points)	**2**	
Enterprises 51% owned by black women. Enterprises 51% owned by people with disability Enterprises 51% owned by black youth. Enterprises 51% owned by military veterans Registered Cooperatives within the North West department of Health database	2	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

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

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

i) The information furnished is true and correct;

ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

(a) disqualify the person from the tendering process;

(b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

(c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

(d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

.....

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME: .....

DATE: .....

ADDRESS: .....

.....

.....

.....

THE NATIONAL TREASURY

Republic of South Africa

GOVERNMENT PROCUREMENT:

GENERAL CONDITIONS OF CONTRACT

July 2010

GOVERNMENT PROCUREMENT

GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

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

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

- The General Conditions of Contract will form part of all bid documents and may not be amended.

- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if (applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

TABLE OF CLAUSES

1. Definitions
2. Application
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4. Standards
5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
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30. Applicable law
31. Notices
32. Taxes and duties
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34. Prohibition of restrictive practices

General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:

1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.

1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.

1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.

1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

1.7 "Day" means calendar day.

1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.

1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.

1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.

1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the

RSA.

1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.

1.14 "GCC" means the General Conditions of Contract.

1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.

1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.

1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.

1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.

1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.

1.20 "Project site," where applicable, means the place indicated in bidding documents.

1.21 "Purchaser" means the organization purchasing the goods.

1.22 "Republic" means the Republic of South Africa.

1.23 "SCC" means the Special Conditions of Contract.

1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such

obligations of the supplier covered under the contract.

1.25 "Written" or "in writing" means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

7. Performance security

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.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:

(a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or

(b) a cashier's or certified cheque

7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

8.1 All pre-bidding testing will be for the account of the bidder.

8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

8.7 Any contract supplies may on or after delivery be inspected, tested or

analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

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

9. Packing

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

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

10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

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

12. Transportation

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

13. Incidental services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

(a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
(b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
(c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;

(d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and

(e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

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

14. Spare parts

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

(a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and

(b) in the event of termination of production of the spare parts:

(i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and

(ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

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

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

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

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

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take

such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

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

18. Contract amendments

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

19. Assignment

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

20. Subcontracts

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

21. Delays in the supplier's performance

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the

supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

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

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

22. Penalties

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

23. Termination for default

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

(a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;

(b) if the Supplier fails to perform any other obligation(s) under the contract; or

(c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

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

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

23.4 If a purchaser intends imposing a restriction on a supplier or any

person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

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

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

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

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

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

24. Anti-dumping and countervailing duties and rights

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

may be due to him

25. Force Majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

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

27. Settlement of Disputes

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,

(a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
(b) the purchaser shall pay the supplier any monies due the supplier.

28. Limitation of liability

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

(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

31. Notices

31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice

31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

34 Prohibition of Restrictive practices

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).

34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

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