




Quotation Advert

Opening Date: 2019-12-17 
Closing Date: 2019-12-24 
Closing Time: 11:00


INSTITUTION DETAILS

Institution Name: St Mary's Marianhill
Province: KwaZulu-Natal
Department or Entity: Department of Health
Division or section: Central Supply Chain Management
Place where goods / services is required: St Mary's District Hospital
Date Submitted: 2019/12/13 

ITEM CATEGORY AND DETAILS

Quotation Number: ZNQ:
220/2019
Item Category: Goods
Item Description: Supply and install of:
x 1 Unit - 400 L Single door
Autoclave
Quantity (if supplies): 1 Unit

COMPULSORY BRIEFING SESSION / SITE VISIT

Select Type: Compulsory Site Visit
Date: 2019-12-18 
Time: 10:00
Venue: Main Entrance of the hospital

QUOTES CAN BE COLLECTED FROM:

St Mary's Hospital

QUOTES SHOULD BE DELIVERED TO:

Security Main Entrance

ENQUIRIES REGARDING THE ADVERT MAY BE DIRECTED TO:

Name: Miss T. Goge
Email: Thandazile.Goge@kznhealth.gov.za
Contact Number: 031-717 1111
Finance Manager Name: Mr S. Mchethwa

Finance Manager Signature:

OFFICIAL PRICE PAGE FOR QUOTATIONS

ZNQ NUMBER: 220/2019

DESCRIPTION: SUPPLY AND INSTALL X1 400L SINGLE DOOR AUTOCLAVE

SIGNATURE OF BIDDER DATE.....
[By signing this document I hereby agree to all terms and conditions]

CAPACITY UNDER WHICH THIS QUOTE IS SIGNED.....

Table with 6 columns: Item No, Quantity, Description, Brand & model, Country of manufacture, Price (R, c). Rows include 'SUPPLY AND INSTALL 400L SINGLE DOOR AUTOCLAVE', 'REFER TO SPECIFICATION', and 'COMPULSORY SITE MEETING' details.

Does This Offer Comply With The Specification? Is The Price Firm? Does The Article Conform To The S.A.N.S. / S.A.B.S. Specification? State Delivery Period E.G. E.G. 1day, 1week

Enquiries regarding the quote may be directed to: Contact Person: Miss T. Goge Tel: 0317171025 E-Mail Address: thandazile.goge@kznhealth.gov.za
Enquiries regarding technical information may be directed to: Contact Person: Mrs Dlamini Tel: 031.717.1000

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to quote (includes a price quotation, advertised competitive quote, limited quote or proposal). In view of possible allegations of favouritism, should the resulting quote, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
 - the bidder is employed by the state; and/or
 - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the quote(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the quote.
2. In order to give effect to the above, the following questionnaire must be completed and submitted with the quote.

- | | |
|--|---|
| 2.1. Full Name of bidder/representative..... | 2.4. Company Registration Number: |
| 2.2. Identity Number: | 2.5. Tax Reference Number: |
| 2.3. Position occupied in the Company (director, trustee, shareholder ²):..... | 2.6. VAT Registration Number: |

2.7. The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below. [TICK APPLICABLE]

2.8. Are you or any person connected with the bidder presently employed by the state? YES NO

2.8.1. If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person connected to the bidder is employed:.....

Position occupied in the state institution: Any other particulars:.....

2.8.2. If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? YES NO

2.8.2.1. If yes, did you attach proof of such authority to the quote document?

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the quote.)

2.8.2.2. If no, furnish reasons for non-submission of such proof:

2.9. Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? YES NO

2.9.1. If so, furnish particulars:.....

2.10. Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this quote? YES NO

2.10.1. If so, furnish particulars:.....

2.11. Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this quote? YES NO

2.11.1. If so, furnish particulars:.....

2.12. Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? YES NO

2.12.1. If so, furnish particulars:.....

3. Full details of directors / trustees / members / shareholders.

NB: The Department Of Health will validate details of directors / trustees / members / shareholders on CSD. It is the suppliers' responsibility to ensure that their details are up-to-date and verified on CSD. If the Department cannot validate the information on CSD, the quote will not be considered and passed over as non-compliant according to National Treasury Instruction Note 4 (a) 2016/17.

4 DECLARATION

I, THE UNDERSIGNED (NAME).....CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2.

I ACCEPT THAT THE STATE MAY REJECT THE QUOTE OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Name of bidder	Signature	Position	Date

¹"State" means –

- | | |
|--|--|
| <p>a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);</p> <p>b) any municipality or municipal entity;</p> | <p>c) provincial legislature;</p> <p>d) national Assembly or the national Council of provinces; or</p> <p>e) Parliament.</p> |
|--|--|

²"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

SPECIAL CONTRACT CONDITIONS OF QUOTATIONS

1. AMENDMENT OF CONTRACT

- 1.1. Any amendment to or renunciation of the provisions of the contract shall at all times be done in writing and shall be signed by both parties.

2. CHANGE OF ADDRESS

- 2.1. Bidders must advise the Department of Health (institution where the offer was submitted) should their address (*domicilium citandi et executandi*) details change from the time of bidding to the expiry of the contract.

3. GENERAL CONDITIONS ATTACHED TO THIS QUOTATION

- 3.1. The institution is under no obligation to accept the lowest or any quote.
- 3.2. The price quoted must include VAT (if VAT vendor). However, it must be noted that the department reserves the right to evaluate all quotations excluding VAT as some bidders may not be VAT vendors.
- 3.3. The bidder must ensure the correctness & validity of quote:
- (i) *that the price(s), rate(s) & preference quoted cover all for the work/item (s) & accept that any mistakes regarding the price (s) & calculations will be at the bidder's risk*
- 3.4. The bidder must accept full responsibility for the proper execution & fulfilment of all obligations conditions devolving on under this agreement, as the Principal (s) liable for the due fulfilment of this contract.
- 3.5. This quotation will be evaluated based on the 80/20 points system, specification & correctness of information. All required documentation must be completed in full and submitted.
- 3.6. Offers must comply strictly with the specification.
- 3.7. Only offers that meet or are greater than the specification will be considered.
- 3.8. Late quotes will not be considered.
- 3.9. Expired product/s will not be accepted. All products supplied must be valid for a minimum period of six months.
- 3.10. A bidder not registered on the Central Suppliers Database or verification has failed will not be considered.
- 3.11. All delivery costs must be included in the quote price, for delivery at the prescribed destination.
- 3.12. Only firm prices will be accepted. Such prices must remain firm for the contract period. Non-firm prices (including rates of exchange variations) will not be considered.
- 3.13. In cases where different delivery points influence the pricing, a separate pricing schedule must be submitted for each delivery point.
- 3.14. In the event of a bidder having multiple quotes, only the cheapest according to specification will be considered. Furthermore a verification will be done to identify if bidders have multiple companies and are quoting (cover-quoting) for this bid. In such instances only the cheapest bid according to specification will be considered.

4. SPECIAL INSTRUCTIONS AND NOTICES TO BIDDERS REGARDING THE COMPLETION OF THIS QUOTATION.

- 4.1. Unless inconsistent with or expressly indicated otherwise by the context, the singular shall include the plural and vice versa and with words importing the masculine gender shall include the feminine and the neuter.
- 4.2. Under no circumstances whatsoever may the quotation/bid forms be retyped or redrafted. Photocopies of the original bid documentation may be used, but an original signature must appear on such photocopies.
- 4.3. The bidder is advised to check the number of pages and to satisfy himself that none are missing or duplicated.
- 4.4. Quotation submitted must be complete in all respects.
- 4.5. Any alteration made by the bidder must be initialled.
- 4.6. Use of correcting fluid is prohibited
- 4.7. Quotation will be opened in public as soon as practicable after the closing time of quotation.
- 4.8. Where practical, prices are made public at the time of opening quotations.
- 4.9. If it is desired to make more than one offer against any individual item, such offers should be given on a photocopy of the page in question. Clear indication thereof must be stated on the schedules attached.

5. SPECIAL INSTRUCTIONS REGARDING HAND DELIVERED QUOTATIONS

- 5.1. Quotation shall be lodged at the address indicated not later than the closing time specified for their receipt, and in accordance with the directives in the quotation documents.
- 5.2. Each quotation shall be addressed in accordance with the directives in the quotation documents and shall be lodged in a separate sealed envelope, with the name and address of the bidder, the quotation number and closing date indicated on the envelope. The envelope shall not contain documents relating to any quotation other than that shown on the envelope. If this provision is not complied with, such quotations/bids may be rejected as being invalid.
- 5.3. All quotations received in sealed envelopes with the relevant quotation numbers on the envelopes are kept unopened in safe custody until the closing time of the quotation/bids. Where, however, a quotation is received open, it shall be sealed. If it is received without a quotation/bid number on the envelope, it shall be opened, the quotation number ascertained, the envelope sealed and the quotation number written on the envelope.
- 5.4. A specific box is provided for the receipt of quotations, and no quotation found in any other box or elsewhere subsequent to the closing date and time of quotation will be considered.

- 5.5. No quotation/bid sent through the post will be considered if it is received after the closing date and time stipulated in the quotation documentation, and proof of posting will not be accepted as proof of delivery.
- 5.6. Quotation documents must not be included in packages containing samples. Such quotations may be rejected as being invalid.

6. SAMPLES

- 6.1. In the case of the quote document stipulating that samples are required, the supplier will be informed in due course when samples should be provided to the institution. (This decreases the time of safety and storage risk that may be incurred by the respective institution). The bidders sample will be retained if such bidder wins the contract.
 - (i) If a company/s who has not won the quote requires their samples, they must advise the institution in writing of such.
 - (ii) If samples are not collected within three months of close of quote the institution reserves the right to dispose of them at their discretion.
- 6.2. Samples must be made available when requested in writing or if stipulated on the document.
 - (i) If a Bidder fails to provide a sample of their product on offer for scrutiny against the set specification when requested, their offer will be rejected. All testing will be for the account of the bidder.

7. COMPULSORY SITE INSPECTION / BRIEFING SESSION

7.1. Bidders who fail to attend the compulsory meeting will be disqualified from the evaluation process.

- (i) The institution has determined that a compulsory site meeting YES take place
- (ii) Date 12/18/19 Time 10:00 Place MAIN ENTRANCE OF HOSPITAL

Institution Stamp:	Institution Site Inspection / briefing session Official Full Name: Signature: Date:
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8. STATEMENT OF SUPPLIES AND SERVICES

8.1. The contractor shall, when requested to do so, furnish particulars of supplies delivered or services executed. If he/she fails to do so, the Department may, without prejudice to any other rights which it may have, institute inquiries at the expense of the contractor to obtain the required particulars.

9. SUBMISSION AND COMPLETION OF SBD 6.1

9.1. Should a bidder wish to qualify for preference points they must complete a SBD 6.1 document. Failure by a bidder to provide all relevant information required, will result in such a bidder not being considered for preference points allocation. The preferences applicable on the closing date will be utilized. Any changes after the closing date will not be considered for that particular quote.

10. TAX COMPLIANCE REQUIREMENTS

- 10.1. In the event that the tax compliance status has failed on CSD, *it is the suppliers' responsibility to provide a SARS pin in order for the institution to validate the tax compliance status of the supplier.*
- 10.2. In the event that the institution cannot validate the suppliers' tax clearance on SARS as well as the Central Suppliers Database, *the quote will not be considered and passed over as non-compliant according to National Treasury Instruction Note 4 (a) 2016/17.*

11. TAX INVOICE

11.1. A tax invoice shall be in the currency of the Republic of South Africa and shall contain the following particulars:

- (i) the name, address and registration number of the supplier;
- (ii) the name and address of the recipient;
- (iii) an individual serialized number and the date upon which the tax invoice is issued;
- (iv) a description and quantity or volume of the goods or services supplied;
- (v) the official department order number issued to the supplier;
- (vi) the value of the supply, the amount of tax charged;
- (vii) the words tax invoice in a prominent place.

12. PATENT RIGHTS

The supplier shall indemnify the KZN Department of Health (hereafter known as 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.

13. PENALTIES

- 13.1. If at any time during the contract period, the service provider is unable to perform in a timely manner, the service provider must notify the institution in writing/email of the cause of and the duration of the delay. Upon receipt of the notification, the institution should evaluate the circumstances and, if deemed necessary, the institution may extend the service provider's time for performance.
- 13.2. In the event of delayed performance that extends beyond the delivery period, the institution is entitled to purchase commodities of a similar quantity and quality as a substitution for the outstanding commodities, without terminating the contract, as well as return commodities delivered at a later stage at the service provider's expense.
- 13.3. Alternatively, the institution may elect to terminate the contract and procure the necessary commodities in order to complete the contract. In the event that the contract is terminated the institution may claim damages from the service provider in the form of a penalty. The service provider's performance should be captured on the service provider database in order to determine whether or not the service provider should be awarded any contracts in the future.
- 13.4. 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.

14. TERMINATION FOR DEFAULT

- 14.1. 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:
 - (i) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract,
 - (ii) if the supplier fails to perform any other obligation(s) under the contract; or
 - (iii) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 14.2. 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.
- 14.3. 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.

15. FAILURE TO COMPLY WITH ABOVE WILL RESULT IN YOUR QUOTE BEING PASSED OVER.

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all quotes invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all quotes:

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

1.2 The value of this quote is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable.

1.3 Points for this quote shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this quote is allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the quote, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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

2. DEFINITIONS

- (a) "B-BBEE" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) "B-BBEE status level of contributor" means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) "bid" means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) "Broad-Based Black Economic Empowerment Act" means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) "EME" means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) "functionality" means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) "prices" includes all applicable taxes less all unconditional discounts;
- (h) "proof of B-BBEE status level of contributor" means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) "QSE" means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \text{ Where}$$

- P_s = Points scored for price of bid under consideration
- P_t = Price of bid under consideration
- P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: =(maximum of 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

(Tick applicable box)

7.1 Will any portion of the contract be sub-contracted?

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....

8. Whether the sub-contractor is an EME or QSE

(Tick applicable box)

iv) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

9. DECLARATION WITH REGARD TO COMPANY/FIRM

9.1 Name of company/firm:.....

9.2 VAT registration number:.....

9.3 Company registration number:.....

9.4 TYPE OF COMPANY/ FIRM [TICK APPLICABLE BOX]

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....
.....

9.6 COMPANY CLASSIFICATION [TICK APPLICABLE BOX]

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

9.7 Total number of years the company/firm has been in business:.....

9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding 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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES
1.
2.

..... SIGNATURE(S) OF BIDDERS(S)
DATE:
ADDRESS.....



health

Department:
Health
PROVINCE OF KWAZULU-NATAL

DIRECTORATE:

Physical Address: 1 Hospital Road, Alfred Park, Durban 4013
Postal Address: Private Bag 210 Amos, 4013
Tel: 031 - 717 1000 Fax: 031 717 1116 Email: cs@kwazulu-natal.gov.za
www.kwazulu-natal.gov.za

ST MARY'S DISTRICT HOSPITAL
SUPPLY CHAIN MANAGEMENT

ST MARY'S DISTRICT HOSPITAL

SUPPLY AND INSTALLATION OF: **X1 UNIT – 400L SINGLE DOOR AUTOCLAVE MACHINE**

NO	COMPULSORY SPECIFICATION REQUIREMENTS	YES or NO
1	Bidders must note that answers must be provided to every technical (technical specification) requirement in this Quotation Specification example YES or NO and where there are deviations, these deviations must be clearly specified. The space provided under "Bidder's Comments" for each clause must be used for this purpose. Bidders who neglect to provide answers to every technical (technical specification) requirement in this Quotation Specification will be disqualified. Bidders must note that abbreviated answers e.g. N/A etc. <u>will not be</u> accepted. Bidders must also note that no part of any technical (technical specification) in this Bid Specification may be altered. Where there are traces of alterations found to the technical specification in this document during the evaluation, the Evaluation Committee will reserve the right to disqualify the bidder. The use of correcting fluid/tippex will disqualify the quotation. THIS DOCUMENT CANNOT BE RE-TYPED.	
2	Compulsory Site Meeting : 18/12/2019 @10H00	
3	COMPULSORY: VALID CIDB REGISTRATION : Grade - EB/ME COMPULSORY ELECTRICAL AND PLUMBING CERTIFICATE OF COMPLIANCE COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT (ACT 85, 1993) AS AMENDED COMPLY WITH THE SOUTH AFRICAN BUREAU OF STANDARDS SPECIFICATION SANS 982-1990 COMPULSORY: BILL OF QUANTITIES DOCUMENT	
4	Only businesses in the required industrial sector relevant to the quote will be considered. Awards will be made in terms of companies core business operations.	
5	OFFICIAL DOCUMENTATION: 5.1 Compulsory Official price quotation page 5.2 Compulsory Official SBD Forms 5.3 Compulsory Original Valid SARS as per CSD 5.4 Compulsory Valid CIDB Certificate – copies must be certified by a Commissioner of Oaths 5.5 Valid BBBEE Certificate – copies must be certified by a Commissioner of Oaths to qualify for Preference Points. 5.6 Compulsory Treasury Central Supplier Database Registration (CSD)	

TECHNICAL SPECIFICATION

6.1 SUPPLY AND INSTALL OF 1 X 400L SINGLE DOOR AUTOCLAVE MACHINE

- 6.2 Services with Safety Certification and Service guarantees. To include all Inspection Reports as per the Occupational Health and Safety Act 85 of 1993.
- 6.3 To perform the work required in terms of this contract during normal working hours except in the case of an emergency.
- 6.4 To allow for Contractor inspections by an Inspector from the Department of Labour, workmen, lights, tools, instruments and other equipment required by the inspector for the purpose of the inspection.
- 6.5 To allow for any additional inspections called for by the OHSA (Occupational Health and Safety Act) 85, of 1993 – this mandatory requirement will form part of this contract.
- 6.6 To replace any part of the existing components, when such replacement or repair has been occasioned by fair wear and tear and in the Contractor's opinion is essential for the safe functioning of the electrical wiring. All identified replacement/s or repair/s and down time to be detailed in a report and handed to the maintenance manager. The following compulsory documentation will be required for all repairs before commencing with such repair/s:
- Detailed Report
 - Compulsory Official Price Quotation Price Page.
 - Compulsory SBD4 Form
 - Compulsory Bill of Quantities Form
 - Job card, safety certification and completion certificate
 - Proof of guarantees pertaining to workmanship, materials and parts
- 6.7 Contractor must supply all user manuals and service manuals or guides on in house maintenance.
- 6.8 NO SUB CONTRACTING WILL BE ALLOWED FOR THIS CONTRACT. ONLY COMPANIES SPECIALISING IN THIS FIELD WILL BE CONSIDERED. SHOULD THE CONTRACTOR REQUIRE THE SERVICES OF AN AGENT OR A SPECIALIST SUB CONTRACTOR IN THIS FIELD EXTERNAL TO HIS/HER COMPANY – THIS MUST BE INDICATED IN THE BILL OF QUANTITIES DOCUMENT & IN THE OFFICIAL PRICE QUOTATION PAGE.**

GENERAL TERMS AND CONDITIONS

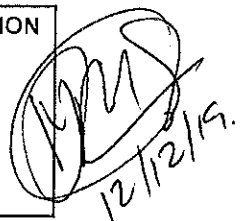
- 7.1 The Contractor to commence work on receipt of order or prior arrangement.
Contractor to ensure he/she informs the Systems Manager of repairs with approximate down time. Only the authorised person/s will permitted on site for the repairing.
- 7.2 Contractors to work within normal working hour's i.e. 07H00 to 15H30, unless prior arrangements have been agreed on and authorized for afterhours work on site. Entrance and exit for authorized afterhours work - the Contractor must at all time report to and sign in and out with the Security Supervisor on site.
- 7.3 The contractor and contractor employees are required to report to the Maintenance Supervisor or Official in Charge upon arrival and prior to departure from the institution.
- 7.4 Compulsory: Signing in and out in the Contractors Register. The Register must be signed by all contract staff on site (Company name, Contractor personnel/staff with title/designation as per page 3 of 5 of the BILL OF QUANTITIES Document).
- 7.5 Compulsory compliance to the OHS ACT 85 of 1993, National Building Regulations & the institution agreed on terms for the duration of the contract.
- 7.6 The Contractor will ensure the area/s where the contract is under way, the area/s closest to and within this area is always kept clean and safe for all persons. Ensure proper visible signage is in place indicating restricted areas is in place for the duration of the work in progress and removed on completion of the contract.
- 7.7 Handing over certificate, Safety Certificates, invoice/s, and job card will ONLY be accepted, once the site is cleared of all rubble/debris/unwanted scrap, under the supervision of the maintenance manager. No scrap metal or redundant parts, materials, equipment or plant to be removed off site without prior written authority from the Systems Manager.
Departure off site.
- 7.8 The contractor shall make timeous arrangements with the maintenance manager to inspect all work carried out prior to departure off site.
- 7.9 Should any part of the complete works perform unsatisfactorily, so as to become detrimental to its functional use, the contractor shall replace any such part, or the complete works, with equipment as prescribed by the institution without delay at his/her own cost. Any damages caused to the building, plant or working area due to contractor negligence, will be repaired at the contractor's cost before the end of the contract or the costs will be deducted from the final invoice of the current work in progress,
- 7.10 Failure to comply with the contract will result in penalties being levied as per the general conditions on the quotation price page.
- 7.11 The contractor shall submit his/her final invoice only after all work is satisfied as per the technical specification of the contract, together with all written guarantees not less than 12 months, safety & completion certificates, written reports if required and signed off job card. Together with the required instruction manuals, service intervals and written maintenance advice on the internal up keep.

G.P. Ndaba

G. Ndaba

Date: 11/12/2019




12/12/19

**PROVINCE OF KWAZULU-NATAL
DEPARTMENT OF HEALTH**

AUTOCLAVE REPLACEMENT SPECIFICATION

St. MARY'S MARIANHILL HOSPITAL: INSTALLATION OF 1 X 400L SINGLE DOOR AUTOCLAVE

1.1 SCOPE OF CONTRACT

- i) Disconnect, uplift and relocate the existing CSSD autoclaves situated in the autoclave plant room and hand over to maintenance to the workshop or to an area identified by hospital maintenance personnel.
- ii) Supply, deliver to site and install the new autoclave in the position vacated by the above old units.
- iii) The existing front fascia board / cover shall be removed together with the existing autoclave as a new stainless steel front fascia/cover shall be allowed for and be, supplied fixed to the new autoclaves as standard, installed to close off the space between the autoclave and the wall opening.
- iv) A stainless steel architrave shall be installed after the installation of the new autoclave to suit the altered/new stainless steel front cover.
- v) The new autoclaves shall be connected to the existing services as required.

1.2 EXECUTION PERIOD

Eight (8) Weeks as the completion period for the Contract from the date of site handover.

1.3 GUARANTEE PERIOD

The guarantee period for the Mechanical Work and all materials must be a minimum of **Twelve Months** from the date of commissioning.

1.4 OCCUPATIONAL HEALTH AND SAFETY FILE

The successful bidder shall submit a Health and Safety File to the institution, to be approved by the Hospital / Department of Health and Safety Officer, before the commencement of work on site.

1.5 SITE AND MODE OF PROCEDURE

Bidders are to visit site to ensure successful installation of all the equipment specified.

Bidders are advised that the existing premises will be occupied throughout the period of the contract.

Damage to the existing buildings - Bidders to note that any damages done or occurring to any of the buildings will be repaired at the expense of the contractor/Bidder.

The repairs must be to the satisfaction of the KwaZulu-Natal Department of Health.

Bidders are advised to visit the site prior to tendering and to acquaint themselves with the nature of the work to be done and access to the siting of the existing buildings etc., as no claim will be allowed on the grounds of ignorance of the conditions under which the work will be executed.

1.6 SATISFACTORY INSTALLATION

The whole of the installation shall be carried out in accordance with the South African Bureau of Standards Code of Practice for the application of National Building Regulations, the KZNPA Standard Preambles to all Trades and the Occupational Health and Safety Act and Regulations of 1983 as amended.

Standard Preambles can be accessed on the Departmental website at <http://www.kznhealth.gov.za/>

1.7 TECHNICAL SPECIFICATION

These works are to be carried out in accordance with the Technical Specification Part 2 and Particular Specification Part 3 hereinafter.

PROVINCE OF KWAZULU-NATAL
DEPARTMENT OF HEALTH

St MARY'S – MARIANHILL HOSPITAL: OPERATING THEATRE AUTOCLAVE INSTALLATION

2. TECHNICAL SPECIFICATION

2.1 COMPLIANCE WITH REGULATIONS AND STANDARD SPECIFICATIONS

- a) The operation, construction, material and components of the sterilizer, as specified, shall comply with the latest requirements of:
- i) The Occupational Health and Safety Act (Act 85, 1993) as amended.
 - ii) The South African Bureau of Standards Specification SANS 982-1990 except where this Technical Specification is at variance, in which case this Technical Specification shall take precedence, or as otherwise approved.
- b) A Certificate issued by the inspection authority under whose supervision the pressure vessel is manufactured shall be provided.
- c) The chamber and jacket shall be of the standard double wall-fabricated construction, designed and manufactured in accordance with B.S. 5500 or equivalent and approved.
- d) The control panel, associated components and wiring shall be installed in compliance with the Department of Public Works and Land Affairs Standard Specification for the Electrical equipment and Installation for Mechanical Services Issue VIII September 1984.
- e) Bacteriological filters shall comply with B.S. 3970 or equal and approved.
- f) Loading equipment shall comply with SANS 982-1990.
- g) SANS 0142: Code of Practice for Wiring of Premises.
- h) SANS 60947-1: 2005/IEC 60947-1: 2004 to SANS 60947-8: 2004/IEC 60947-8: 2004: Low voltage switch gear and control gear.
- i) All building works shall be in accordance with the Standard Preambles to All Trades.
- j) An Electrical Certificate of Compliance, in accordance with the OHS Act as amended will be required for all Electrical Works.
- k) Inspection and testing on site, by an approved inspection authority, shall be carried out prior to commissioning and after installation, in accordance with the Vessels under Pressure Regulations, Regulation 13. (1) (a) of the OHS Act, as amended.
- l) The autoclave must be a proudly South African product: fully manufactured in SA. It is required that the manufacturer has a quality management system in place, SANS/ISO 3834. The manufacturer must comply with SANS 347. Without the above the manufacturer MUST be disqualified.
- m) The contractor should fully familiarise himself with the above documents prior to quoting.

2.1 2.2TYPE AND SIZE OF 0,4 m³ STERILIZERS.

- a) The sterilizer shall be of the rectangular, horizontal, recessed, high pressure, high speed, pulsing, single door, jacketed type, and shall be suitable for sterilizing instrument packs and porous loads and, when specified, fluids. The sterilizer shall have a chamber capacity of not less than 0,4 m³ and the internal dimensions of the chamber shall be 460mm wide x 460mm high x 760mm deep.
- b) The overall size shall be approximately 760mm wide x 1900mm high x 1200mm.
- c) The sterilizer is required to operate at a pressure of 240-kPA gauge. The operating temperature shall be 138°C.

2.2.3 STERILIZING CHAMBER AND JACKET

- a) The sterilizing chamber shall be constructed of Stainless Steel clad, mild steel OR entirely from grade 304 ℓ Stainless Steel.
- b) A solid head-ring shall be welded to the open end of the autoclave. The head-ring shall support the clamps, which hold the door, and have machined into it a groove, which accommodates a silicone gasket. The depth of the groove shall be sufficient to ensure that the gasket can be fully retracted when a vacuum is drawn behind it.
- c) The chamber shall be constructed in such a way as to facilitate the fitting of internal shelves or the use of internal and external loading equipment.
- d) One end of the sterilizing chamber shall be closed by a suitably reinforced flat end, which shall be of the same material as the chamber and shall be welded thereto.
- e) The jacket of the sterilizer shall be manufactured from grade 430A boiler plate or grade 304 ℓ stainless steel and be designed to operate at a pressure of 240 kPA g and the sterilizing chamber shall operate at a similar pressure alternating with absolute vacuum.
- f) Note: The designed safe working pressure shall be such that the safety valve shall reset, once operated, at a pressure greater than the required operating pressure, to ensure that the safety valve does not "weep".
- g) On completion of manufacture, the chamber and jacket shall each be subjected to a hydraulic test, in accordance with the Code of Construction.
- h) Steam shall be admitted to the chamber behind a baffle, which will prevent direct steam contact with the load.
- i) NOTE: - The Manufacturer shall provide a written 5-year guarantee for the chamber and jacket, in respect of any stress-related failure, which arises from faulty manufacture.

2.2.4 STERILIZER DOOR

- a) The sterilizer door shall be as specified in the particular specification. The sterilizer door shall be of the automatic vertical sliding, counter balanced type. The door shall be fabricated from the same material as the chamber.

Means shall be provided, in respect of automatic doors, to stop the vertical travel of the door should it come in contact with any obstruction such as a protruding tray, pack or the operator's hand. Note: A slipping clutch system will not be acceptable. Suitable provision must be made to limit the vertical travel to the fully closed position.

The door shall be sealed by means of a steam inflated gasket, which when deflated shall be retracted by vacuum to a position free from contact with the door. The gasket must be capable of ensuring a steam and vacuum tight joint and be designed to withstand a pressure in the chamber of 480 kPA g or absolute vacuum.

- b) Means shall be provided so that :-
 - i) The rise of pressure inside the chamber is prevented, prior to the door being completely closed and locked in position.

- ii) The sterilizing cycle cannot be commenced until the door is fully closed and locked in position.
- iii) The release of the door from the closed and locked position is prevented unless the pressure inside the chamber has been reduced to atmospheric pressure.
- iv) The door cannot be opened either automatically or manually until the sterilizing cycle has been fully completed.
- v) The chamber is effectively vented to atmosphere before the door opening mechanism is released.

2.2.5 CONTROL SYSTEM

- a) The control system shall be automatic. The type of control system will be specified in the particular specification and shall be either:
 - i) Programmable logic control (PLC); or
 - ii) Microprocessor/(PC) type.
- b) Control systems shall be installed in such away as to prevent electro-magnetic interference. The controller shall be properly protected against lightning hazards, power surges, mains-borne and other noise interference to prevent malfunctioning of the system. The suppresser shall be as "PONTECH KLEEN-LINE" or other approved.
- c) A cycle counting facility of the non-cancelable type shall be provided, which may be displayed either on the front facia or be mounted in the control panel.
- d) The function of all contactor's shall be clearly marked. All wiring terminations shall be numbered in accordance with the wiring diagram.
- e) Control panels shall incorporate a suitably rated lockable electrical isolating switch.
- f) Mains power supply failures of up to 60 seconds shall not abort the sterilizing cycle process.

2.2.6 OPERATION

2.2.6.1 INSTRUMENT PACKS AND POROUS LOADS CYCLE

- a) The removal of air from the loaded chamber shall be by means of a pulsing system as hereafter specified. The sequence of operation shall be effected automatically and without manual interference once each cycle is commenced.
- b) To commence the cycle the chamber is loaded and the door is closed and locked by means of a push button. When the start button is pressed the following sequence of stages shall commence:

2.2.6.1.1 STAGE 1: AIR REMOVAL

- a) Sufficient air shall be removed from the loaded chamber to permit achievement of the temperature-time relationship during Stage 2.
- b) The automatic control shall be capable of providing the following sequence of events during Stage 1:
 - i) Reduction of pressure within the loaded chamber to a reduced pressure of -80kPA g .
 - ii) Admit steam to restore pressure within the chamber to a positive pressure of $+30\text{kPA g}$.
 - iii) Close off steam. Reduction of pressure within the loaded chamber to a reduced pressure of -80kPA g .
 - iv) The conditions specified under (ii) and (iii) shall be repeated a further three times to give a total of four pulses.

The automatic control shall then change to Stage 2. The vacuum pump shall continue to run throughout the following stages.

2.2.6.1.2 STAGE 2: STERILIZATION

- a) Steam shall be admitted to the chamber to provide sterilizing conditions within the chamber load. The temperature shall be sensed and indicated from the chamber drain and shall accord with the following time-temperature relationship. Within the total stage a temperature of 135°C shall be maintained for not less than four minutes.
- b) If at any time during the timed sterilizing period of four minutes the temperature should fall below 135°C, the timer shall automatically reset to starting point and shall only start timing again when the correct temperature has been restored in order to guarantee that, at the end of the sterilizing period, the load in the chamber has been continuously subjected to steam at a temperature of 135°C for a period of four minutes.
- c) The automatic control shall then change the process to Stage 3. Visual indication that the sterilizing period is in operation must be provided.

2.2.6.1.3 STAGE 3: EXHAUST AND DRYING

- a) The automatic control shall close the steam to the chamber valve and open the exhaust to condenser and water to condenser valves. Visual indication that the exhaust and drying stage is in progress shall be provided.
- b) When the chamber pressure has been reduced to – 80kPA g the drying timer shall start and run for 6 minutes after which the process shall change to Stage 4.

2.2.6.1.4 STAGE 4: AIR ADMISSION

- a) Means shall be provided for the drying vacuum, specified in Clause 2.6.1.3 above, to be broken via a bacteriological air filter.

2.2.6.1.5 STAGE 5: CYCLE COMPLETE

- a) Visual indication that the full sterilizing cycle is complete shall be provided, after which the door can be opened.

2.2.6.1.6 CYCLE ABORT

- a) The control circuit shall include a facility to monitor the time taken to attain the required pressure, vacuum and temperature conditions. Should any of the required conditions not be met (within a period which shall be adjustable up to 15 minutes) per stage, the cycle shall abort by proceeding through stages 3, 4 and 5 after which an audible alarm and indicator lamp shall indicate an unsterile cycle, at which point it shall be possible to open the sterilizer door.

2.6.2 **BOWIE AND DICK TEST CYCLE**

- a) All vacuum sterilizers which process porous loads shall be provided with a dedicated Bowie and Dick test cycle. The Bowie and Dick test cycle shall be as specified in 4.6.1 except that the sterilizing temperature shall be 134°C and the sterilizing time shall be 3.5 minutes.

2.6.3 **FLUIDS CYCLE**

- a) When specified (in the particular specification) the sterilizer shall be supplied with a fluids cycle.
- b) A selector switch shall be provided which when turned to fluids and the start button is pressed the following sequence of stages shall commence:-

2.6.3.1 **STAGE 1: AIR REMOVAL**

- a) The pressure within the loaded chamber shall be reduced to - 80kPA g. The automatic control shall then change to Stage 2.

2.6.3.2 STAGE 2: STEAM TO CHAMBER

- a) Steam shall be admitted to the chamber via the down draught method until a temperature of 121°C is reached. The automatic control shall then change to Stage 3.

2.6.3.3 STAGE 3: STERILIZATION

- a) Within the total stage a temperature of 121°C shall be maintained for not less than thirty minutes. The automatic control shall then change the process to Stage 4.

2.6.3.4 STAGE 4: SLOW EXHAUST

- a) The steam shall be slowly exhausted via a needle (slow exhaust) valve, which shall be set in such a way that the period in which the pressure shall be reduced, from the sterilizing pressure of 105kPA g to a pressure of 14kPA g, shall not be less than twenty minutes in a loaded chamber. The automatic control shall then change to stage 5.

2.6.3.5 STAGE 5: AIR FLUSH

- a) Air shall be drawn through the chamber via the filter, the open-air valve, chamber drain needle valve and vacuum pump. When the chamber pressure has been reduced to 15kPA g pressure the vacuum pump shall continue to run for ten minutes with the air valve open.

2.6.3.6 STAGE 6: CYCLE COMPLETE

- a) Visual indication that the full sterilizing cycle is complete shall be provided, after which the door can be opened.

1.6.3.7 CYCLE ABORT

- a) The control circuit shall include a facility to monitor the sterilizing temperature. Should the temperature of 121°C not be reached and maintained for thirty minutes within a period of one hour, the cycle shall abort by proceeding through Stage 3, 4 and 5 after which an audible alarm and indicator light shall indicate an un-sterile cycle, at which point it shall be possible to open the sterilizer door.

2.6.4 LEAK TEST FACILITY

- a) An automatic leak test facility shall be provided as per SANS 982-1990 clause 4.4.8.
- b) The selection of the leak test shall be by means of a key switch, which shall be clearly marked "LEAK TEST", or by means of a password in respect of microprocessor controls. The key switch shall be mounted on the control panel located at the rear of the sterilizer.

2.6.5 MILK BOTTLE STERILIZATION

- a) An Autoclave shall be programmed and will have a cycle to sterilize milk bottles, and other similar material equipment, at maximum temperature of 121°C and maximum time of 10 minutes.

2.7 STEAM JACKET DISCHARGE

- a) When the condensate discharge is connected to the condensate return line the jacket condensate discharge line shall be provided with a balanced pressure thermostatic steam trap, non-return valve and strainer.

2.8 CONDENSATE DISCHARGE TO DRAIN

- a) The condensate discharge line from the jacket and chamber shall be provided with a suitable air break before discharging into the drain. A means shall be provided to prevent the emission of steam and vapour from the air break.

2.9 DRAIN DISCHARGE

- a) The temperature of water, which is discharged to drain, shall not exceed 70°C.

2.10 EXHAUST DISCHARGE

- a) The sterilizer shall be provided and fitted with a condenser of sufficient capacity to condense the exhaust steam. The water supply to the condenser shall be automatically controlled.
- b) A water feed tank, with ball valve and overflow outlet, piped to drain shall be incorporated via which the waste water from the condenser system shall be partially recycled in such a way as to conserve water, but to avoid loss of efficiency.

2.11 SAFETY VALVES

- a) The sterilizer shall be fitted with a bronze safety valve of the vertical, direct spring-loaded type, the spring and seat of which shall be stainless steel, with screwed side discharge, directly connected to the steam space at the top of the jacket by a pipe of minimum length.
- b) The safety valve shall be capable of being set and locked by means of a lock and key.
- c) The safety valve shall be set in accordance with Regulation 6 of the OHS Act, as amended.
- d) The safety valve shall be drained by means of a tail pipe, connected via a "T" piece to form a drain pocket, located so as to drain at the valve discharge connection point.
- e) All safety valves shall be piped separately to a safe, but visible point outside of the plant room building. Wherever practicable the safety valve pipeline shall be graded to ensure that condensate flow is away from the safety valve.

2.12 AIR ADMISSION

- a) Air admission to the sterilizer to break the chamber vacuum shall be through a bacteriological filter, which shall be manufactured in accordance with BS 3970. The filter shall be located at least 1220mm above floor level. The filter element shall be easily replaceable. The filter shall be attached by means of a threaded or compression type fitting.

2.13 VACUUM PRODUCTION

- a) The vacuum shall be produced by a water ejector and centrifugal water feed pump which shall be capable of producing and maintaining a reduced pressure of -80kPa g, at sea level.

2.14 THERMAL INSULATION AND CLADDING

- a) The sterilizer jacket shall be insulated externally however, where the autoclave jacket is manufactured from stainless steel fibreglass wool type insulation will not be acceptable. Insulation cladding of aluminium sheet of 0.9mm thickness, or composite insulation board with a bonded aluminium foil finish, will be acceptable. The cladding surface temperature shall not exceed 50°C while in operation.

2.15 STERILIZER FASCIA AND FITTINGS

- a) The sterilizer shall be provided with a 0,9 mm thick, grade 304 ℓ, number 3 finish (satin) front fascia and architrave, sized to overlap the sterilizer opening after the removal of the existing old unit. The fascia shall have no sharp edges and when fixed in position shall fit tight against the wall opening. The fascia shall be as described under section 5 hereinafter.

b) The following instruments and fittings shall be provided on the front panel:

- i) One pressure gauge calibrated 0-400 kPA g to register jacket pressure and with the maximum working pressure marked on the dial in red.
- ii) One compound pressure gauge calibrated -100 to 400-kPA g to register chamber pressure. The maximum working pressure shall be marked on the dial in red. The minimum chamber vacuum shall be marked on the dial in green.
- iii) A temperature-sensing device calibrated 0 to 150°C to indicate the temperature to an accuracy of within 1°C at 136°C.
- iv) Gauges shall be 100mm diameter or approximately 72mm x 72mm or other approved
- v) Indicator lamps or LCD indication of cycle status, temperature and pressure as applicable.
- vi) A cycle counter shall be provided
A printer of the ribbon cassette/paper roll type shall be provided and shall record a minimum of:
 - Cycle stages: time, temperature, pressure.
 - Cycle number and date.
 - Cycle status e.g. "Non Sterile"
- vii) Main control switch.
 - The autoclave number (e.g. 1 or 2 or 3 etc.) shall be screen printed, or etched, onto stainless steel, or aluminium plate, of approximately 50mm x 50mm and attached to the fascia, or where otherwise indicated; or as otherwise approved.
 - A suitably wide protective rubber, or PVC, strip shall be fitted to the autoclave fascia, or as otherwise specified, to prevent, proprietary loading equipment impact damage.
 - All gauges shall be vapour proof with non-ferrous metal casings.
 - All the above mentioned instruments and fittings shall be flush mounted.

2.16 VALVES AND PIPING

All control valves shall be electrically activated. Steam valves shall be fitted with Teflon discs.

The following specified valves, or other approved, shall be installed for:

- | | | |
|---|--------|-----------------------|
| a) Steam to jacket and to steam to chamber | 20mm Ø | Asco SCE 222 A049 |
| b) Exhaust valve and blowdown valve | 20mm Ø | Asco SCX E220 A5 |
| c) Chamber bleed valve and boiler water valve | 15mm Ø | Asco SCX E220 A3 |
| d) Steam to gasket valve | 8mm Ø | Asco SCH TX B320 A184 |
| e) TDS valve | 8mm Ø | Birket 13018P |
- f) The main cycle control valves, namely: steam to jacket; steam to chamber; exhaust; vacuum break, shall be electrically activated. Steam valves shall be fitted with Teflon discs.
 - g) Copper piping used, shall be to SANS 460: 2003- Class 2.
 - h) Compression fittings shall only be used for connections to fittings, which require removal for servicing.

2.17 PRESSURE CONTROL

2.17.1 Direct Steam Autoclave

Control of steam pressure shall be by means of a suitably rated pressure switch controlled, normally closed, solenoid valve. The pressure shall modulate in such a way that the safety valve will not operate prematurely.

2.17.2 Integral Steam Generator Autoclave.

- a) The sterilizer shall be provided with an integral steam generator, manufactured from B.S. 151 Grade 430A carbon steel plate (for which materials Compliance Certificate shall be provided). A certificate issued by the inspection authority under whose supervision the pressure vessel is manufactured shall be provided.
- b) The steam generator vessel shall be connected to the sterilizer jacket via a globe type isolation valve. The steam generator shall be fitted with a correctly sized and rated safety valve and pressure gauge.
- c) The steam generator shall be fitted with a steam separator.
- d) At least one end of the steam generator shall be flanged, to which an inspection cover shall be bolted and sealed with a gasket of suitably rated material.
- e) To monitor the electrical load per phase, an ammeter connected via current transformers and selector switch shall be provided. The normal working amps shall be marked in red on the ammeter faceplate.
- f) Electric heating elements of the sheathed wire immersion; Incaloy type shall be fitted in a manner, which will facilitate removal, inspection and replacement. Wiring shall be continuously rated. The element kW rating shall be stamped on the manufacturer's plate.
- g) A pressure switch shall control the steam pressure to a maximum of 240kPA gauge.
- h) A 20mm Ø automatic blow down valve shall be provided. Blow down pipework shall be installed in such a way that there is no pressurisation of the water feed tank under blowdown conditions.
- i) The automatic blow down shall be programmed in order that:
 - i) The blow down time shall be adjustable from 5 to 60 minutes.
 - ii) Blow down will not take place during a cycle.
 - iii) Blow down frequency shall be adjustable from 1-7 days.
 - iv) Blow down shall take place at full operating pressure.
 - v) Elements and water feed shall be de-energised during blow down
- j) One floatless type level switch shall control the operating water level. A second floatless type switch shall protect the elements against low water level conditions. A water level gauge glass shall be provided. The maximum and minimum water levels shall be indelibly marked in red on the water level gauge.
- k) The water supply shall be connected to the steam generator via a valve and a non-return valve. Where the mains water supply pressure is less than 300 kPA g, a break/pressure water supply tank, with ball valve and overflow piped to drain and a centrifugal type water feed pump shall be incorporated.
- l) The pump shall be protected against low water conditions.
- m) **Note** - The steam generator shall be provided with (in addition to the manual blow down valve) a suitably rated, normally closed, TDS control, bleed valve of 6mm nominal bore.
- n) The take off point for the TDS bleed shall be from a point above the elements and below the low water level.

- o) Prior to the TDS bleed valve, a 15mm globe type isolating valve and strainer shall be provided.
- p) The TDS bleed valve shall be programmed to open at the end of each cycle. It shall be possible to manually adjust the valve open time from 0 to 20 seconds.
- q) The bleed valve shall be piped to drain.

2.18 FRAME AND BASE

The frame and base shall be of either:

- i) Robust mild steel construction. The steelwork shall be de-burred, degreased and painted with:
 - Primer Coat: Plascon Strathclyde PA 10.
 - Undercoat: SABS 681 Type II Plascon Universal.
 - Enamel Finishing Coat: SABS 630 Type Plascon Universal Enamel or other approved, or
- ii) 304 ℓ Grade stainless steel.
- iii) Support frames and bases shall be leveled so that there is a minimum of 10mm clearance between the frame/base and the finished floor level. Front facia shall be flush with the finished floor level.

2.19 LEVELING SCREWS

A minimum of four stainless steel levelling screws shall be provided together with stainless steel base pads of a minimum of 50mm diameter, 5mm thick.

2.20 LOADING EQUIPMENT

- a) General Features: Shall be as per SANS 982-1990, Clause 5.8.1.
- b) Shelves: Shall be as per SANS 982-1990, Clause 5.8.2 and shall be fabricated from grade 304 ℓ Stainless Steel round bar.
- c) Loading Carriage and Transfer Trolley shall be as per SANS 982-1990, Clause 5.8.3, 5.8.3.1 and 5.8.3.2.

2.21 SIDE COVERS

- a) When it is required that the sterilizer shall be installed in a free standing position (not recessed) easily removable side covers shall be provided.
- b) Side covers shall be ventilated and be manufactured from mild steel 1.2mm thick which shall be, deburred degreased and coated with an epoxy powder coated finish or equal and approved.

2.22 FUTURE CONVERSION

- a) Note: Direct steam autoclaves are to be constructed in such a way as to facilitate, with ease, the future incorporation of integral steam generators.

2.23 SERVICES

- a) Where practicable all services i.e., steam, condensate, water and electrical supplies, shall be routed overhead and connected to the autoclave.
- b) All services are to be colour coded.

2.24 TESTING

- a) The supplier/installer shall supply all instrumentation and materials necessary for the installation, testing and validation of each autoclave in accordance with standard EN285 of 1996 as amended. (European Standard : Sterilization – Steam Sterilizers – Large Sterilizers)

2.25 DESCRIBE THE STERILIZING CYCLE STAGES, STATE PRESSURE, TEMPERATURE AND TIMES

STAGE	DESCRIPTION	Pressure	Temp.	Time

Note: Additional copies of this page may be made and submitted with the schedule of information if required.

PROVINCE OF KWAZULU-NATAL
DEPARTMENT OF HEALTH

St MARY'S – MARIANHILL HOSPITAL: OPERATING THEATRE AUTOCLAVE INSTALLATION

3. PARTICULAR SPECIFICATION

3.1 TECHNICAL SPECIFICATION

3.1.1 GENERAL

The Technical Specification (Part 4) shall be read in conjunction with all other sections of this Particular Specification and cognisance shall be taken of the clauses relevant to the Particular installation, whether any specific clauses are referred to or not.

3.2 GENERAL REQUIREMENTS

Bidders are to make special note of the following:

This particular specification must be read with, and shall form part of, Part 3 of this document (Project Specification).

In so far as the conditions contained herein are at variance with any obtained in the Technical Specifications, the contract shall be interpreted in terms of this Part 3 (Particular Specification).

The whole installation shall be in accordance with the Occupational Health and Safety Act 85/1993 and all regulations framed therein shall be carried out to the satisfaction of the Department of Health.

Competent workmen skilled in their trade shall carry out all work. Quality shall be of the best standard practice and all workmanship will be subject to the approval of the Department of Health.

The work shall at all times, for the duration of the contract, be carried out under the supervision of a skilled and competent representative of the Contractor, who will be able and authorized to receive and carry out instructions on behalf of the Contractor. A sufficient number of workmen shall be employed at all times to ensure satisfactory progress of the work.

All apparatus, component parts, fittings and materials employed in the execution of the Contract shall be new and unused and shall be the latest type or pattern of the particular manufacture employed. S.A.B.S. mark bearing items shall be used wherever possible.

Allow for any anti-vibration equipment required to ensure that the installation is completely acceptable to the Department of Health.

The complete installation shall be maintained for a period of twelve months after acceptance in writing by the Department of Health and shall allow for routine inspections not less frequently than two times a year.

The complete installation must be guaranteed against defective parts and workmanship for a period of twelve months after the date of issue of the Completion Certificate. This period shall run concurrently with the maintenance period.

Rates are to include for commissioning and testing of the complete installation and handing over in working order ready for use.

Bidders are advised to visit the site and acquaint themselves fully with the site conditions and nature and full extent of work involved prior to submitting their tender. Claims on the grounds of insufficient information in such respects or otherwise will not be entertained by the Administration.

The Administration reserves the right to make emergency repairs to keep the equipment in operation without voiding the Contractor's Guarantee, nor relieving the Contractor of his responsibility during the guarantee period when, after proper notice, the Contractor fails to attend to such emergency repairs. All costs incurred by the Administration under these circumstances will be for the account of the Contractor.

NOTE: All electrical equipment shall comply with NER Regulation of voltage.

3.3 SCOPE OF CONTRACT

Replace one existing autoclaves situated in the operating theatre at St. MARY'S MARIANHILL HOSPITAL

Supply, deliver to site and install 400 Litre autoclaves/sterilizers in the theatre complex/CSSD to replace the above old units.

- i) Disconnect, uplift and relocate ONE existing CSSD autoclaves situated in the autoclave plant room and hand over to maintenance to the workshop or to an area identified by hospital maintenance personnel.
- ii) Supply, deliver to site and install a new autoclave in the position vacated by the above old units.
- iii) The existing front fascia board / cover shall be removed together with the existing autoclave as a new stainless steel front fascia/cover shall be allowed for and be, supplied fixed to the new autoclaves as standard, installed to close off the space between the autoclave and the wall opening.
- iv) A stainless steel architrave shall be installed after the installation of the new autoclave to suit the altered/new stainless steel front cover.
- v) The new autoclaves shall be connected to the existing services as required.

New Sterilizer Installation.

3.3.1 Supply and install 0,4m³ sterilizer, rectangular, horizontal recessed model, high speed, high pressure, pulsing, single automatic sliding door jacketed type autoclave with three sterilizing cycles, as per the Technical Specification part 2 above, for:

- i) Instrument packs and porous loads.
- ii) Liquids.
- iii) Rubber goods.

And with

- a) Control system
- b) Bowie and Dick Test cycle
- c) Air leak test
- d) Vacuum pump
- e) Internal and external loading trollies
- f) One of loading trolley per autoclave
- g) Three sets of operating and maintenance manuals.

3.3.1.1 A new prefabricated architrave of 0,9mm brushed finished grade 304 l stainless steel shall be supplied fitted to the sterilizer to suit the autoclave front and to cover the gap between autoclave and wall opening. The opening final dimensions shall be determined on site by the contractor prior to manufacture of the autoclave and the front cover.

3.3.1.2 Allow to connect to the existing electrical isolators. (Note: The existing autoclave isolators are fed from separate DBs the one off essential power the other off non-essential power.)

- 3.3.1.3 Allow to connect to the existing water supply.
- 3.3.1.4 Allow for a water softener booster pump set complete with 25 litre sphere, check valves and pressure gauge to serve the two autoclaves.
- 3.3.1.5 Allow for 28mm Ø copper drain to discharge into the existing drain.
- 3.3.1.6 Allow for 15mm Ø copper piping from the safety valve to discharge steam at high level outside the plant room or alternately to tundish and drain.
- 3.3.1.7 Supply and fit a framed wiring diagram and fault finding guide in the plantroom and operating instructions adjacent to the autoclave fascia.
- 3.3.1.8 Installation testing, in accordance with EN285, 1996: Specification for Large Steam Sterilizers, to be carried out by the contractor. One test of each of the following is required.
 - i) Microbiological test (full load only)
 - ii) Thermometric test
 - iii) Air removal test (excluding air detection)
 - iv) Load dryness (full load only)

NOTE 1: All tests are to be documented and witnessed by a representative of the Department of Health.

NOTE 2: All test instrumentation, equipment and test devices are to be supplied by the contractor.

- 3.3.1.9 Supply spare door gaskets and cans of silicon spray.
- 3.3.1.10 Supply rolls of printer paper.
- 3.3.1.11 Supply boxes of printer ribbon.
- 3.3.1.12 Inspection and testing is required. Test certificate to be provided.
- 3.3.1.13 Staff training. CSSD and maintenance staff.
- 3.3.1.14 Commission and handover.
- 3.3.1.15 Six and twelve month service
- 3.3.1.16 Supply two sets of operating maintenance manuals.

3.4 THE SITE

The sites is 1 Hospital road, Mariannahill

Bidders are to visit site to ensure successful installation of all the equipment specified.

3.5 PROGRAM OF WORKS

The contractor shall notify the institution seven (7) days prior to carrying out any site work. As the Centre is to remain in full operation for the duration of the works, the works are to be planned and executed so as to cause minimum inconvenience to staff.

3.6 TESTING AND COMMISSIONING

The units shall be tested and commissioned before handing over to the Administration.

3.7 MAINTENANCE MANUALS

Two sets of maintenance and operating manuals are required which shall include all circuit diagrams, spare parts lists, operating instructions, etc.

3.8 MAINTENANCE AND SERVICING

The unit is subject to an unrestricted twelve (12) month free maintenance and guarantee period, after the date of issue of the Completion Certificate. This is to cover all aspects of the equipment and associated wiring, piping, controls etc.

During the twelve (12) month maintenance and servicing period any defects shall be made good and all plant and equipment maintained in perfect operating condition.

SCHEDULE OF PRICES

PREAMBLE TO THE SCHEDULE OF PRICES

1. All prices shall be quoted in the currency of the Republic of South Africa and will be fixed. Only where exchange rates have been stated in the quotation document, as at two weeks (14 days) prior to closing date of this quotation, will such exchange rate fluctuation be taken into account in the variation of the cost of the imported items/equipment.
2. The Tenderer shall enter a price against each item in the schedule of prices. If the Tenderer fails to enter a price against any item in the schedule of prices the relevant cost of such item shall be regarded as being covered by other prices in the schedule of prices.
3. **The prices quoted against each item of these schedules shall cover the full inclusive cost of everything required for the execution of the work under the item plus an apportionment of any cost involved in meeting the obligations and liabilities imposed by the conditions of contract and in complying with the specifications.**
4. The prices quoted for the supply of plant and equipment shall include for all handling, loading, transporting and off-loading required for the delivery of the plant and equipment to the site, including in the case of off-site storage for double handling at the store.
5. The prices quoted for erection and installation shall include for all handling, loading, transporting and off-loading, to take plant and equipment to place on site where required, erection, installation, painting, commissioning, operating, testing, adjusting, handing over in proper working order and guarantee for a period of 12 months, all as specified.
6. The tendered rates and amounts must exclude Value Added Tax (VAT) but must include all levies, other taxes and duties on items to which they apply. Separate provision has been made in the Summary of Schedule of Prices for the addition of VAT.
7. Amounts allowed for contingencies will be spent in part or as a whole at the sole discretion of the Department of Health's "Representative".
8. The Schedule of Prices shall be completed and signed in **black ink**. Corrections must be done by deleting, re-writing and initialing next to the amendment.
9. Electrical and Mechanical work is not measured according to the Standard Procedures of Building Work.
10. The scope of work carried out will be re-measured at completion and the final cost of the works will be adjusted accordingly.

EQUIPMENT AND MATERIAL

1. MECHANICAL SCHEDULE OF RATES

ITEM	DESCRIPTION	QTY	UNIT COST	TOTAL COST (Excluding VAT)		
				BOUGHT OUT	PRO- PRIETARY	SUB CONTRACT
	Submit Occupational Health and Safety Plan before any construction work commences. Fulfill all safety requirements ,safety audits, inspections etc for the full duration of the contract in terms of the Health and Safety Specification	1	No			
	Disconnect, uplift and remove from the existing plant room the faulty 0.396m3 autoclave together with stainless steel panel & architrave and steam generator as specified.	1	No			
	Supply, deliver to site and install 'a new autoclave of 0.4 m³ min. capacity, with integral steam generator including all control and safety valves, pipe work, complete as specified.	1	No			
	Allow for 0,9mm thick brushed finished grade 304 stainless steel front panel as specified.	1	No			
	Allow for a stainless steel or aluminium architrave as required to enclose the gap between autoclave and side panels as specified.	1	No			
	Allow for 15mm Ø copper pipe water supply to connect the autoclave to the existing supply feed including fittings and stop cock as required.	10	m			
	Allow for 22mm Ø copper pipe drain from the safety valve to discharge steam at high level outside the plant room onto the building roof. The drain pipe shall have a tail pipe, connected via a "T" piece to form a drain pocket, located to drain at the valve discharge connection point as specified.	10	m			
	Allow for 28mm Ø copper drain to discharge into the existing gulley/ system or as may be required and as specified	10	m			
	Internal loading carriage with external transfer trolley as specified.	1	No			
	Allow for spare door gaskets	3	No			
	Allow for silicon spray can	3	No			
	Supply spare printer paper roll as specified	3	No			
	Supply spare boxes of printer ribbon as specified	2	No			
	Allow for Installation testing – EN 285 as specified	1	No			
	Allow for Inspection & testing per Reg 13.1(a)	1	Item			
	Allow for staff training i. e. CSSD & Maintenance Staff.	1	Item			
	Allow for maintenance and guarantee period of 12 months	1	No			
	Allow for a water softener, with booster pump, of the electronic control type with check valves, pressure gauge and connected copper pipes	1	No			
	TOTAL SUMMARY A1 (CARRIED FORWARD TO SUMMARY A1 + A2)					

2. ELECTRICAL SCHEDULE OF RATES

ITEM	DESCRIPTION	QTY	UNIT COST	TOTAL COST (Excluding VAT)		
				BOUGHT OUT	PRO- PRIETARY	SUB CONTRACT
	PROPRIETARY ARTICLES: All equipment and material used in this contract is to be that which is specified or other approved by the Department.					
	LOW VOLTAGE CABLING, TERMINATIONS AND LAYING LOW VOLTAGE CABLES Supplying, laying cables and/or fixing of Multicore cables including terminations All cables shall be of the PVC ECC SWA type. Lengths given shall be as measured lengths of cable run from terminals to terminals and rates quoted shall allow for off cuts and wastage.					
	CABLE TERMINATIONS Cable terminations shall include the supply and fitting of a cable gland, WT shroud, making off the cable and fitting the gland to a board or gland plate, including final connections of cable tails into terminals. The earth strands shall be taken through the gland for fixing to the earth bar or stud. The gland will not be accepted as an earth connection. All glands shall be "Pratley" or other approved					
	Disconnection of power to existing autoclave.	1	No			
	16mm ² x 4 core + ECC cable for power connection to new autoclave as specified	20	m			
	80 amp 6ka rating curve 2 MCB to replace existing in DB situated in adjacent passage as specified	1	No			
	Allow to replace existing autoclave isolator with 80amp TP isolator of 6KA rating adjacent to the autoclave in autoclave plant room as specified.	1	No			
	Allow for wiring diagrams	1	Item			
	Allow to fit over/under voltage monitor, incorporating phase failure and phase rotation (such as Electro V3EN or other approved) as specified	1	No			
	Compliance Certificate as specified	1	No			
	Compliance Certificate (Softening Plant)	1	No			
	TOTAL SUMMARY A2 (CARRIED FORWARD TO SUMMARY A1 + A2)					

SCHEDULE OF PRICES

SUMMARY A1 + A2

EQUIPMENT AND MATERIAL

ITEM NO	PAGE NO	DESCRIPTION	BOUGHT OUT	PROPRIETARY	SUB-CONTRACT
Insert Item numbers here	Insert page no here	Insert Heading of Schedule of Prices here	R	R	R
		TOTAL SUMMARY A1 - MECHANICAL SCHEDULE OF RATES	R	R	R
		TOTAL SUMMARY A2 - ELECTRICAL SCHEDULE OF RATES	R	R	R
SUB TOTAL			R	R	R
ADD MARK-UP					
BOUGHT OUT EQUIPMENT					
.....%(From R0.00- R 1 199 999.99) (Maximum 20%)			R		
.....%(From R 1 200 000.00-R 2 000 000.00) (Maximum 15%)			R		
			R		
NO MARK-UP ON PROPRIETARY EQUIPMENT				R 0.00	
ADD MARK-UP FOR SUB-CONTRACT WORK .....%(Maximum 15 %)					R
SUB TOTALS			R	R	R

TOTAL

(Bought out + Proprietary + Sub Contract) R.....

(A1 + A2) GRAND TOTAL R.....

(To be carried forward to Collection Summary Form)

1. St MARY'S MARIANHILL HOSPITAL - SCHEDULES OF PRICES

SUMMARY A3 (Supply, install and commission Autoclave)

LABOUR HOURS

ITEM NO	PAGE NO	DESCRIPTION	SKILLED LABOUR	APPRENTICE LABOUR	SEMI SKILLED LABOUR	UNSKILLED LABOUR
Insert Item numbers here	Insert page no here	Insert Heading of Schedule of Prices here	HOURS	HOURS	HOURS	HOURS
		Supply, install and commission autoclave. – St MARY'S MARIANHILL HOSPITAL				
SUB TOTAL						

(To be carried forward to Summary B 3 (Labour, Subsistence, Travel and Transport))

3. MARY'S MARIANHILL HOSPITAL- SCHEDULE OF PRICES (Supply, install and commission Autoclave)

SUMMARY B3

LABOUR, SUBSISTENCE, TRAVEL AND TRANSPORT

7.8.1 LABOUR	TOTAL HOURS	RATE/HR	AMOUNT
a) Artisans	.....	R	.....
b) Apprentices	.....	R...../hr	.....
1 st year	.....	R...../hr	.....
2 nd year	.....	R...../hr	.....
3 rd year	.....	R...../hr	.....
4 th year	.....	R...../hr	.....
c) Semi-skilled	.....	R /hr	.....
d) Unskilled	.....	R ...../hr	.....
7.8.2 SUBSISTENCE	TOTAL DAYS	RATE	
a) Artisans/Apprentices	.....	R /day	.....
b) Semi-skilled	.....	R /day	.....
c) Unskilled	.....	R /day	.....
7.8.3 TRAVEL	TOTAL KM	RATE	
7.8.3.1 From contractor's premises to site			
a) trips (skilled) @..... km per trip	.....	R...../km	.....
b) trips (semi- skilled) @..... km per trip	.....	R...../km	.....
7.8.3.2 From accommodation to site			
a) (skilled) @..... km per trip	.....	R...../km	.....
b) trips (semi skilled) @ km per trip	.....	R...../km	.....
7.8.4 TRANSPORT	TOTAL KM	RATE	
Haulage to site .....trips			
@ km per trip	2.5 tone	R...../km	.....
@ km per trip	3 tone	R...../km	.....
@ km per trip	5 tone	R...../km	.....
@ km per trip	7 tone	R...../km	.....
@km per trip	10 tone	R...../km	.....
b) Cranage to and on site @ sub contract rate	.....	X.....	.....

SUB TOTAL R _____

TOTAL R _____

B3 - GRAND TOTAL

Labour, subsistence, travel and transport

(To Be Carried forward to Collection Summary Page)

COLLECTION SUMMARY

INSTITUTION:

St MARY'S – MARIANHILL HOSPITAL:

PROJECT:

OPERATING THEATRE AUTOCLAVE INSTALLATION

NOTE:

THIS COLLECTION SUMMARY MUST BE COMPLETED IN FULL BY THE CONTRACTOR AND RETURNED TOGETHER WITH THE TENDER FORM.

Collection Summary (A1 + A2) - GRAND TOTAL	R		
Collection Summary (B3) - GRAND TOTAL	R		
SUB-TOTAL "A"	R		
ADD Provision for Value Added Tax Allow 15% of SUB-TOTAL "A"	R		
<u>TOTAL (CONTRACT OFFER): CARRIED TO TENDER FORM</u>	R		