




**Opening Date:** 2019-10-30   
**Closing Date:** 2019-11-06   
**Closing Time:** 11:00

### INSTITUTION DETAILS


**Institution Name:** Ngwelezane hospital   
**Province:** KwaZulu-Natal  
**Department or Entity:** Department of Health  
**Division or section:** Central Supply Chain Management  
**Place where goods / services is required** NGWELEZANE HOSPITAL THANDUYISE ROAD, EMPANGENI  
**Date Submitted** 2019-10-29 

### ITEM CATEGORY AND DETAILS

**Quotation Number:** ZNQ:  
A189/19-20  
**Item Category:** Goods   
**Item Description:** BAC 200EL ULTIMATE PIEZO SCALER PRODUCT CODE 03039BAC200EL

**Quantity (if supplies)** 03 UNITS

### COMPULSORY BRIEFING SESSION / SITE VISIT

**Select Type:** Not Applicable   
**Date :**   
**Time:**  
**Venue:**

**QUOTES CAN BE COLLECTED FROM:** NGWELEZANA HOSPITAL STORES (SCM DEPT.)

**QUOTES SHOULD BE DELIVERED TO:** NGWELEZANA HOSPITAL TENDER BOX NEXT TO OPD

### ENQUIRIES REGARDING THE ADVERT MAY BE DIRECTED TO:

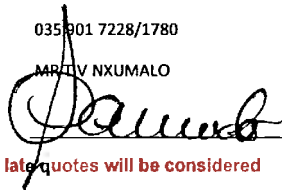
**Name:** NZ DLADLA/ NS MNGOMEZULU/ R.T MKHUMBUZI  
**Email:** nomathandazo.mngomezulu@kznhealth.gov.za  
**Contact Number:**

Finance Manager Name:

035901 7228/1780

MRTV NXUMALO

Finance Manager Signature:



A handwritten signature in black ink, appearing to read 'MRTV NXUMALO', is written over a horizontal line. The signature is stylized and cursive.

**No late quotes will be considered**



health

Department:  
Health

PROVINCE OF KWAZULU-NATAL



## NGWELEZANA HOSPITAL

ZNQ – A : 189/19-20

ITEM: BAC 200EL ULTIMATE PIEZO SCALER, PRODUCT CODE  
03039BAC200EL

Closing Date & Time : 06 NOVEMBER 2019 @ 11 A.M  
 Contract Period : ONCE OFF  
 Validity Period : 60 DAYS  
 Contact Person : NZ DLADLA/ N.S MNGOMEZULU  
 Telephone no. : 035 901 7228/7180

DOCUMENTS MUST BE DEPOSITED IN THE QUOTATION BOX SITUATED IN:

THANDUYISE ROAD,NGWELEZANA TOWN SHIP EMPANGENI,3880	THE QUOTATION BOX IS AVAILABLE ON THE FOLLOWING DAYS AND TIMES: MONDAYS TO FRIDAYS 07:30 - 16:00
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**COMPULSORY DOCUMENTS TO BE ATTACHED. (INDICATE WITH A TICK) FAILURE TO ATTACH DOCUMENTS WILL LEAD TO DISQUALIFICATION AND NO BEE PREFERANCE POINTS WILL BE ALLOCATED WHERE AN ORIGINAL OR CERTIFIED BEE CERTIFICATE IS NOT ATTACHED:**

ORIGINAL AND VALID TAX CLEARANCE CERTIFICATE

CERTIFIED COPY OF A VALID B-BBEE CERTIFICATE

**NB: ORIGINAL TAX CLEARANCE AND BBEE CERTIFICATE MAY BE ATTACHED TO ONE ZNQ DOCUMENT WHICH IS CLOSING ON THE SAME DATE AND COPIES OF TAX CLEARANCE & CERTIFIED B-BBEE CERTIFICATE MAY BE ATTACHED TO THE OTHER DOCUMENTS. PLEASE INDICATE THIS ZNQ NO: WHERE ORIGINALS ARE ATTACHED. ZNQ-A: .....**

**NAME OF TENDERER:** \_\_\_\_\_

**CENTRAL SUPPLIERS DATABASE REGISTRATION (CSD)  
NO.:** \_\_\_\_\_







## 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  take place
- (ii) Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Time \_\_\_\_:\_\_\_\_ Place \_\_\_\_\_

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 point's 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** (here after 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
<b>PRICE</b>	80
<b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>	20
<b>Total points for Price and B-BBEE must not exceed</b>	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:

$$Ps = 80 \left( 1 - \frac{Pt - P \text{ min}}{P \text{ min}} \right) \text{ Where}$$

- Ps = Points scored for price of bid under consideration
- Pt = Price of bid under consideration
- Pmin = 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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Black people who are youth	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are women	<input type="checkbox"/>	<input type="checkbox"/>
Black people with disabilities	<input type="checkbox"/>	<input type="checkbox"/>
Black people living in rural or underdeveloped areas or townships	<input type="checkbox"/>	<input type="checkbox"/>
Cooperative owned by black people	<input type="checkbox"/>	<input type="checkbox"/>
Black people who are military veterans	<input type="checkbox"/>	<input type="checkbox"/>
OR		
Any EME	<input type="checkbox"/>	<input type="checkbox"/>
Any QSE	<input type="checkbox"/>	<input type="checkbox"/>

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..... ..... .....

	<p>15. Minimum reservoir capacity 4 litres</p> <p>16. 15 Amp plug shall be supplied.</p> <p>17. Shall have separate drying cycles which shuts off automatically 7 – 12 minutes.</p>	
17	<p style="text-align: center;"><b>PORTABLE AUTOCLAVE</b></p> <p>1. Shall operate at mains voltage of 220 - 240V 50Hz.</p> <p>2. Shall be completely portable with handle.</p> <p>3. Internal size shall be 210 mm diameter +250 mm height.</p> <p>4. Sterilising time at 135°C shall not exceed 35 minutes.</p> <p>5. Total cycle shall not exceed 35 minutes.</p> <p>7. Shall include</p> <p style="padding-left: 20px;">7.1 Sealing gasket</p> <p style="padding-left: 20px;">7.2 Lead / plug set</p> <p style="padding-left: 20px;">7.3 Operating manual</p> <p>8. Safety and venting valve shall be incorporated.</p> <p>9. 15 Amp 3 point plug shall be supplied</p>	
18	<p style="text-align: center;"><b>VISIBLE /WHITE CURING LIGHT – WITH CORD</b></p> <p>1. The light shall operate at voltage 220 – 240V, 50Hz.</p> <p>2. Power input shall be 100 watt.</p> <p>3. Separate power unit and hand-held light gun.</p> <p>4. Wave length of emitted light shall be minimum 400 nM - maximum 500 nM.</p> <p>5. The light shall have built-in automatic overheat protection.</p> <p>6. Power unit and light gun shall be connected by electrical cord and not by fibre-optic bundle.</p> <p>7. The light shall have a 360° swiveling light guide (Autoclavable).</p> <p>8. The light shall have finger-activated on/off trigger switch on light gun.</p> <p>9. The light shall be supplied with interchangeable light guides: Sizes as follows:</p> <p style="padding-left: 20px;">9.1 Curved 8mm dia</p> <p style="padding-left: 20px;">9.2 Curved 3mm dia</p> <p>10. The light shall have long-life halogen lamp (min 10 000 during cycles).</p> <p>11. Spare lamps shall be freely available on the local market.</p> <p>12. Lamp replacement shall be easily done by user.</p> <p>13. The light shall have variable audible settings.</p> <p>14. The light shall have built-in cooling fan, continuous, running 40 seconds after light switches off.</p> <p>15. 15 Amp, 3 point plug shall be supplied.</p>	
19	<p style="text-align: center;"><b>VISIBLE/WHITE CURING LIGHT - CORDLESS</b></p> <p>1. The light shall operate at voltage 220 – 240V, 50Hz.</p> <p>2. Power input shall be 100 watt.</p> <p>3. Separate power unit and hand-held light gun.</p> <p>4. Wave length of emitted light shall be minimum 400 nM - maximum 500 nM.</p> <p>5. The light shall have built-in automatic overheat protection.</p> <p>6. Power unit shall be connected by electrical cord.</p> <p>7. The light shall have a 360° swiveling light guide (Autoclavable).</p> <p>8. The light shall have finger-activated on/off trigger switch on light gun.</p> <p>9. The light shall be supplied with interchangeable light guides: Sizes as follows:</p> <p style="padding-left: 20px;">9.3 Curved 8mm dia</p> <p style="padding-left: 20px;">9.4 Curved 3mm dia</p> <p>10. The light shall have long-life halogen lamp (min 10 000 during cycles).</p> <p>11. Spare lamps shall be freely available on the local market.</p> <p>12. Lamp replacement shall be easily done by user.</p> <p>13. The light shall have variable audible setting.</p> <p>14. The light shall have built-in cooling fan, continuous, running 40 seconds after light switches off.</p> <p>15. 15 Amp, 3 point plug shall be supplied.</p>	
20	<p style="text-align: center;"><b>ULTRASONIC SCALER</b></p> <p>1. Operating power shall be 220 – 240 V, 50 Hz.</p> <p>2. Unit shall be magneto-strictive type.</p> <p>3. Power shall be 30 KHz/sec.</p> <p>4. Movement of tip shall be elliptical.</p> <p>5. Autotune shall be present but variable power with control knob.</p>	

6. Motional feedback from tip for power compensation shall be present.
7. For infection control handpiece and tips shall be autoclavable up to 135°C.
8. Water cooling through tip with volume control knob.
9. Cavitation at tip shall be present
10. Activation shall be by means of foot control.
11. Master on/off switch with indicator light shall be fitted.
12. One set of three standard scaler tips shall be supplied.
13. Tips shall be interchangeable without the use of spanner.
14. A minimum of 3 tips should be provided.
15. 15 Amp 3 pin plug shall be supplied.

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**WALL FIXED INTRA-ORAL DENTAL X-RAY UNIT (NON DIGITAL)**

1. Head shall be fully adjustable in vertical and horizontal planes by means of free counter balanced swinging arm.
2. Wall mounted, overall length 1,680 mm
3. Shall operate 220 - 240V, regulated input to comensate for fluctuating volgages in rural areas etc.
4. Shall operate at minimum 80 kv and maximum 8 mA
5. Maximum exposure tins shall be 2,5 sec.
6. MAS should not exceed 20.
7. Filtration total 1,5mm - AL Equ - 2mm AL
8. Built in collimator
9. Exposure time to be variable from min 0.02 - 2.5 sec
10. Lead lined long cone 8"
11. Exposure switch of "dead man" type
12. Permissible voltage fluctuation of ± 10%
13. Focal spot size not to exceed 0,7 x 0,7 mm.
14. Audio alarm and visual warning light shall be incorporated
15. 15 Amp 3 pin plug shall be supplied.
16. Radiation Control licence no.

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**MOBILE INTRA-ORAL DENTAL X-RAY UNIT (NON DIGITAL)**

1. Unit shall be mounted on stable mobile stand
2. Head shall be fully adjustable in vertical and horizontal movement by means of free counter balanced swing arm
3. Shall operate 220 - 240V, regulated input to comensate for fluctuating volgages.
4. Shall operate at minimum 80 kv and maximum 8 mA
5. Maximum exposure tins shall be 2,5 sec at 22,4 mA
6. Filtration total 1,5mm - AL Equ - 2mm AL
7. Built in collimator
8. Exposure time to be variable from min 0.02 - 2.5 sec
9. Lead lined long cone 8"
10. Exposure switch of "dead man" type
11. Permissible voltage fluctuation of ± 10%
12. Focal spot size not to exceed 0,7 x 0,7 mm.
13. Audio alarm and visual warning light shall be incorporated
14. 15 Amp plug shall be supplied.
15. Radiation Control licence no.

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**FULL AUTOMATIC INTRA-ORAL DENTAL FILM PROCESSOR**

1. Upper and lower compartments shall be made of impact-resistant plastic
2. Shall be supplied with daylight hood
3. Shall operate at voltage 220 - 240,50 HZ
4. Tanks for processing, washing and fixing shall be removable for easy cleaning
5. Full process of development and fixing shall be 6 - 9 minutes.
6. Shall be supplied with film holder to cover complete range of film sizes
7. Built in drying system shall be incorporated
8. 15 Amp, 3 point plug shall be supplied

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**MANUAL INTRA-ORAL DENTAL FILM PROCESSOR**

1. The compartment shall be made of impact-resistant plastic
2. Shall be supplied with daylight hood