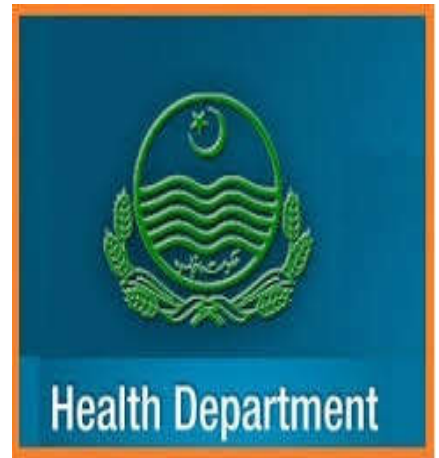


**SPECIALIZED HEALTH CARE AND
MEDICAL EDUCATION
DEPARTMENT**

GOVERNMENT OF THE PUNJAB

**PRODUCT VOCABULARY MEDICAL
STORE(PVMS) OF DENTAL**



Volume - I , 2016

Table of Contents

| | |
|--|----|
| Dental Unit & Chairs..... | 1 |
| (a)High speed Air Turbine Hand Piece. | 2 |
| (b) Electric Scalar (Built in). | 3 |
| (c)Slow speed Air Motors. | 4 |
| Dental Unit Local. | 5 |
| Light Cure Unit (latest generation L.E.D.). | 7 |
| Mini Cautery Unit..... | 8 |
| Class B- Autoclave. | 9 |
| Digital Intra Oral Camera (Dental Imaging). | 10 |
| Dental X-Ray Machine (Mobile). | 11 |
| Digital Imaging System (Photostimulable phosphor)..... | 12 |
| Digital Imaging System (Intra Oral Sensor)..... | 13 |
| 2-D Digital Panoramic and Cephalo metric Unit..... | 14 |
| 3 D Digital Panoramic and Cephalo metric Unit X-Ray Unit (CBCT)..... | 16 |
| 3 D Digital Panoramic and Cephalo metric Unit..... | 18 |
| Electric Motor Slow Speed..... | 20 |
| Ultra Sonic Cleaners..... | 21 |
| Amalga meter dental Apparatus that mixes..... | 22 |
| Endo Motor with built in apex Locators..... | 23 |
| Central Suction Systems..... | 24 |
| Central Compressor..... | 25 |
| Oil Free Air Compressor for 1x Dental Unit | 26 |

| | |
|--|----|
| Water Distiller..... | 27 |
| Phantom Head Labs..... | 28 |
| Surgical Electro Micro Motors..... | 29 |
| Condenser..... | 30 |
| Dental /Maxillofacial surgery tools..... | 31 |
| Electric Nerve Stimuator..... | 32 |
| Multi-vector intra-oral bone distractors and distractors for implant augmentation..... | 33 |
| Dental /Maxillofacial surgery tools..... | 34 |
| Surgical endoscope for oral & Maxillofacial Use..... | 35 |
| Cryosurgical unit for oral & maxillofacial surgery..... | 36 |
| CPR manikins with AED..... | 37 |
| Therabite TMJ Exerciser..... | 38 |

APPROVED PVMS

| | |
|--|---|
| Generic Name | Dental Unit |
| Clinical Purpose | Dental Unit is a key equipment of any dental surgery, It is equipped with various dental instrument for dental treatment. |
| TECHNICAL SPECIFICATIONS | |
| <p>Manually / Automatically adjustable headrest with movable head pad. The headrest extension can be pulled in or out depending on the patient's height. For upper jaw treatment.</p> <p>Right armrest Swiveling for entry and exit of patient while left one is fixed</p> <p>2 programmable / pre-set chair positions (Mouth rinsing and entry / exit position)</p> <p>2 programmable chair positions for each user profile</p> <p>Chair movement through silent electric motors / electro hydraulic system.</p> <p>Automatic Emergency stop of chair once it meets an obstacle and unit stop chair instantly.</p> <p>Synchronized movement of backrest and seat cushion by electric motors / electro hydraulic system prevents construction/over extension of the patient. The position of the patient's head on the headrest remains constant when the chair is lowered.</p> <p>4-way Joystick for adjustment of chair & backrest positions / foot control.</p> <p>Pneumatic Foot switch for controls of hand pieces, chip air and spray.</p> <p><u>Dentist's Element</u></p> <p>The control panel can be used for operating functions, preset and programmable positions .Hand piece holders.</p> <p>5 hand piece positions including 3way syringe</p> <p>Hand piece priority system (if one Hand piece in use others will not operate)</p> <p>Equipped with:</p> <p>1 x 3-way syringe with autoclavable tip</p> <p>3x fiber optic hand piece / self generating LED Light.</p> <p>Removable silicone tray pad</p> <p>Removable hand piece and tubing for cleaning and disinfection.</p> <p><u>Assistant's Element</u></p> | |

Swiveling assistant element mounted attached on water unit

Control of function keys of entry / exit position, tumble filling, flushing the cuspidor and switch the light ON/OFF

Number of hand piece positions including 3way syringe: 3/4

Equipped with:

1 x 3-way syringe with autoclave able tip

1 x High Volume Evacuation hose, autoclave able suction hand pieces with adjustment suction pressure

1 x saliva ejector hose , autoclave able suction hand piece with adjustment suction pressure

Water Unit

Automatic Bowl Rinse function

Automatic Glass Fill function with time adjustment

Clean water system with the facility to change from clean (water bottle) to tap water with switch

Self suction or ready to connect in case of central suction.

LED Operating Light

For optimum illumination of the treatment site

Flexible positioning via three flexible joints

Anti-glare for the patient through clearly confined luminous spot

No-touch sensor for hygienic hands-free operation, Intensity change and light on/off

Light on/off through control panel and via no-touch sensor

Brightness is 25000 Lux or more, Temperature 4000-5000 Kelvin or above

02x Working Stools

360° swiveling backrest and seat with manual hand release button, mounted on 5-castors

| (a) | |
|------------------|--|
| Generic Name | High Speed Air Turbine Hand Piece |
| Clinical Purpose | A dental Air Turbine is a small, high-speed drill used during dental procedures, usually to remove decay and shape tooth structure |

| | |
|--|--|
| | prior to the insertion of a filling or crown. A dental drill may also be used in the cleaning and shaping of root during endodontic treatment, or to remove old or temporary fillings or crowns prior to the insertion of new or permanent restorations. |
|--|--|

TECHNICAL SPECIFICATIONS

| |
|---------------------------------|
| Fixed connection, Midwest type |
| Ceramic ball bearings |
| Push button chuck type |
| Speed (Rpm): 3,50,000 - 400,000 |
| Tipple Spray |

(b)

| | |
|------------------|---|
| Generic Name | Electric Scalar (Built-in) |
| Clinical Purpose | Ultrasonic scalars are used to remove calculus rapidly from the tooth surface. The scaling tip vibrates in the ultrasonic range |

TECHNICAL SPECIFICATIONS

| |
|--|
| <p>Built-in Ultrasonic LED Scalar</p> <p>Flexible and easy to use with a selection of tips designed for use in specific treatment areas such as Scaling, periodontology, implantology, endodontics, retrograde root treatment, micropreparation, filling therapy.</p> <p>Powerful, efficient and gentle treatment</p> <p>Large selection of tips for every scaler</p> <p>Outstanding brightness in scalers with lights</p> <p>Sterilize-able hand piece and tips</p> <p>Drive: Piezoelectric</p> <p>Oscillation: Linear</p> <p>Oscillation frequency: 28-32 kHz</p> <p>Illumination: LED</p> |
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| (c) | |
|--|-----------------------------|
| Generic Name | Slow Speed Air Motor |
| Clinical Purpose | |
| TECHNICAL SPECIFICATIONS | |
| Slow Speed Air Motor with Internal water spray and speed range of 25,000 -40,000 rpm or better-with straight and contra angle attachment | |

APPROVED PVMS

| | |
|--|---|
| Generic Name | Dental Unit Local |
| Clinical Purpose | Dental Unit is a key equipment of any dental surgery, It is equipped with various dental instrument for dental treatment. |
| TECHNICAL SPECIFICATIONS | |
| <p>Manually / Automatically adjustable headrest with movable head pad. The headrest extension can be pulled in or out depending on the patient's height. For upper jaw treatment.</p> <p>Right armrest Swiveling for entry and exit of patient while left one is fixed</p> <p>2 programmable / pre-set chair positions (Mouth rinsing and entry / exit position)</p> <p>2 programmable chair positions for each user profile</p> <p>Chair movement through silent electric motors / electro hydraulic system.</p> <p>Automatic Emergency stop of chair once it meets an obstacle and unit stop chair instantly.</p> <p>Synchronized movement of backrest and seat cushion by electric motors / electro hydraulic system prevents construction/over extension of the patient. The position of the patient's head on the headrest remains constant when the chair is lowered.</p> <p>4-way Joystick for adjustment of chair & backrest positions / foot control.</p> <p>Pneumatic Foot switch for controls of hand pieces, chip air and spray.</p> <p><u>Dentist's Element</u></p> <p>The control panel can be used for operating functions, preset and programmable positions .Hand piece holders.</p> <p>5 hand piece positions including 3way syringe</p> <p>Hand piece priority system (if one Hand piece in use others will not operate)</p> <p>Equipped with:</p> <p>1 x 3-way syringe with autoclavable tip</p> <p>3x fiber optic hand piece / self generating LED Light.</p> <p>Removable silicone tray pad</p> <p>Removable hand piece and tubing for cleaning and disinfection.</p> <p><u>Assistant's Element</u></p> <p>Swiveling assistant element mounted attached on water unit</p> | |

Control of function keys of entry / exit position, tumble filling, flushing the cuspidor and switch the light ON/OFF

Number of hand piece positions including 3way syringe: 3/4

Equipped with:

1 x 3-way syringe with autoclave able tip

1 x High Volume Evacuation hose, autoclave able suction hand pieces with adjustment suction pressure

1 x saliva ejector hose , autoclave able suction hand piece with adjustment suction pressure

Water Unit

Automatic Bowl Rinse function

Automatic Glass Fill function with time adjustment

Clean water system with the facility to change from clean (water bottle) to tap water with switch

Self suction or ready to connect in case of central suction.

LED Operating Light

For optimum illumination of the treatment site

Flexible positioning via three flexible joints

Anti-glare for the patient through clearly confined luminous spot

No-touch sensor for hygienic hands-free operation, Intensity change and light on/off

Light on/off through control panel and via no-touch sensor

Brightness is 25000 Lux or more, Temperature 4000-5000 Kelvin or above

02x Working Stools

360° swiveling backrest and seat with manual hand release button, mounted on 5-castors

The Unit must be CE (MDD)/MHLW/FDA-510 K Certified. Any one certificate out of these three is mandatory.

| | |
|---|---|
| Generic Name | Light Cure Unit |
| Clinical Purpose | Curing light is a piece of dental equipment that is used for polymerization of light cure resin based composites. |
| TECHNICAL SPECIFICATIONS | |
| <p>The latest generation L.E.D. (Light Emitting Diode) curing light</p> <p>Power: 1,250-1400mW/cm² without raising the temperature</p> <p>Polymerization time: 6 - 20 seconds</p> <p>With Rechargeable battery</p> | |
| <p>Standard Accessories:</p> <p>Battery, Battery charger, Power supply cord, opalescent guide of diam. 7.5mm or better and an oval light shield</p> | |

| | |
|---|--|
| Generic Name | Mini Cautery Unit |
| Clinical Purpose | Mini Cautery Unit is the device of a high-frequency (radio frequency) alternating polarity, electrical current to biological tissue as a means to cut, coagulate, desiccate, or fulgurate tissue |
| TECHNICAL SPECIFICATIONS | |
| <p>30-50 watts to perform all dental incision and coagulation acts providing more safety</p> <p>Controlled power</p> <p>Reliable and reproducible settings</p> <p>Less energy loss</p> <p>Only two potentiometers (incision and coagulation)</p> <p>Settings can be very finely adjusted according to the different types of tissues encountered</p> <p>Conductive bracelet</p> <p>In direct contact with the patient's skin</p> <p>Easily disinfected</p> <p>Adjusted to a contact region with a low resistance</p> <p>Perfect size to avoid concentration of heat</p> <p>More security: in compliance with new standards</p> <p>Light and autoclavable electrode holder</p> <p>Simple to mount electrodes</p> <p>Electrode is insulated by a sheath</p> <p>Can be used for clinical applications such as - Incisions/Excisions, Frenectomy, Gingivoplasty, Coagulation, Abscess incision, Exposure of impacted/retained teeth, Gingivectomy etc.</p> <p>10 electrodes classified according to their size and hemostatic capacity</p> <p>Incision, excision, fulguration and coagulation</p> <p>Fast and safe assembly</p> | |

| | |
|---|---|
| Generic Name | Class B Autoclave |
| Clinical Purpose | Autoclaves are used in dental applications to perform sterilization of dental equipment's/ Instruments. |
| TECHNICAL SPECIFICATIONS | |
| <p>Chamber Capacity: 20-25 Liter.</p> <p>Loading Capacity: 5kg instruments or 1.8kg textiles or more</p> <p>Table top Standalone Class B-Autoclave</p> <p>Built-in Electric Steam Generator made of stainless steel</p> <p>Fully automatic microprocessor controlled autoclave</p> <p>Digital LCD display</p> <p>5 Sterilization programs</p> <p>Fast cycle programs</p> <p>Temperature Cycle 134°C in 30-45 min</p> <p>Temperature Cycle 121°C in 45-60min</p> <p>Vacuum and Bowie & Dick test program</p> <p>Serial interface for documentation</p> <p>Automatic electrical door lock with safety door lock system</p> <p>Built-in water quality sensor (conductivity sensor)</p> <p>Easy to use by single button start</p> <p>Electro-polished stainless steel chamber (304 / 316)</p> <p>Temperature sensor</p> <p>Internal storage of last 40 cycles data</p> <p>Built-in monitoring system to check the cycle automatically every 0.5 seconds</p> <p>Tipple-pre and deep post vacuum</p> <p>Two reservoirs for fresh and waste water</p> <p>5 pieces of compatible trays with the autoclave</p> <p>One piece of tray holder</p> | |

| | |
|--|---|
| Generic Name | Digital Intra Oral Camera |
| Clinical Purpose | Digital camera is a necessary tool in every dental practice. The type of digital camera system necessary will depend on the work being done and the output being produced for better diagnostic and planning. |
| TECHNICAL SPECIFICATIONS | |
| <p>Plug and Play Digital Intra Oral Camera System with LCD. Camera can be mounted on the dentist element as well as LCD on the Monitor arm situated on Light Pole</p> <p>Can shows the images directly on the LCD and as well as can store images in the PC through software</p> | |

APPROVED PVMS

| | |
|--|---|
| Generic Name | Dental X-Ray Machine (Mobile) |
| Clinical Purpose | Radiographs used for many reasons: to find hidden dental structures, malignant or benign masses, bone loss, and cavities. |
| TECHNICAL SPECIFICATIONS | |
| <p>Compatible with Digital Sensors and Traditional Films</p> <p>100% imported Scissor arm and mobile stand from the original manufacturer</p> <p>Short exposure times especially suitable for digital imaging</p> <p>Microprocessor controlled</p> <p>Tube Current 3.5 mA or better</p> <p>Tube voltage 60-70 kV or better</p> <p>Focal point 0.4-0.0mm or better with filtration system</p> <p>Exposure time automatic adjustable</p> <p>Patient types: Child and Adult</p> <p>Automatic Selection of dose by Tooth selection</p> <p>Timer with integrated circuit</p> <p>Tube head with 360° rotations with beam limiter</p> <p>Power on light signal, x-ray emission light signal</p> | |

| | |
|---|---|
| Generic Name | Digital Imaging System (Photostimulable Phosphor) |
| Clinical Purpose | Digital Imaging System is an equipment use to scan digital x-ray images. Digital X-ray images used for many reasons: to find hidden dental structures, malignant or benign masses, bone loss, and cavities. |
| TECHNICAL SPECIFICATIONS | |
| <p>Operation under normal light conditions</p> <p>16-bit or better</p> <p>High image quality with effective resolution 14-22LP/mm or better</p> <p>Rapid image availability within 7-8 sec</p> <p>Image read out, erase and make ready for the next use in one step</p> <p>Standby function</p> <p>Compact design place able in the direct vicinity of chair</p> <p>PC interface via USB and Network</p> <p>Common intraoral plates sized with 100% active surface area</p> <p>Complete with image viewing software on Multi station(End user to specify the quantity of PC stations)</p> | |
| <p>Accessories:</p> <p>2x image plate size(End-user to specify the sizes)</p> <p>4x image plate size: (End-user to specify the sizes)</p> <p>Light protective covers for image plates</p> <p>1x Image plate storage box</p> <p>10x Cleaning wipes for image plates</p> <p>1x USB Cable</p> <p>Software with unlimited user license</p> | |

| | |
|---|--|
| Generic Name | Digital Imaging System (Intra Oral Sensor) |
| Clinical Purpose | Digital Imaging System (For Single Surgery) is an equipment use to scan digital x-ray images. Digital X-ray images used for many reasons: to find hidden dental structures, malignant or benign masses, bone loss, and cavities. |
| TECHNICAL SPECIFICATIONS | |
| <p>Sensor size 1 for Sharp, clear and low noise radiographs</p> <p>Round edges with full image</p> <p>Sensor Technology: CMOS / CCD</p> <p>Measured Resolution: 22lp/mm</p> <p>Sensor Cable Length: 1.8-3.8 meter</p> <p>Interface: High Speed USB latest version</p> <p>Sensor status confirmation through LEDs on USB module</p> <p>Active Sensor Area: 30x20mm or better</p> | |
| Complete with all standard accessories | |

APPROVED PVMS

| | |
|------------------|---|
| Generic Name | 2D Digital Panoramic and Cephalometric Unit with Single Sensor for PAN & CEPH |
| Clinical Purpose | An OPG is a panoramic or wide view x-ray of the lower face, which displays all the teeth of the upper and lower jaw on a single film. |

TECHNICAL SPECIFICATIONS

3D Upgradable with 3D Volume 8x8cm without stitching

- 3-point patient immobilization positioning
- Automatic Patient positioning by Occlusal bite block and O2 laser beam system
- Automatic adjustment to the jaw width
- Automatic radiation management for different images
- Directly connectable to the network (Should has its own IP)

Programs:

- Standard panoramic
- Pediatric Program
- Quick shot panoramic
- Image of left or right-hand side
- Image of individual quadrants
- Image of upper or lower jaw
- Constant magnification of Dentition
- Artifact-reduced image
- Thick-layer images of anterior region, both jaws
- Maxillary Sinuses image program
- Multi slice in posterior tooth region
- Temporo mandibular joint
- Bitewing image
- Lateral Ceph, PA, AP and Corpus View program through Ceph Arm

Technical data

- Multi-pulse High frequency generator: 100-120 kHz
- X-ray generator : 60-90 KV, 3-16 mA – or more

Sensor: CMOS/CCD

Panoramic exposure time: 14 Second or better

Patient positioning laser lights: 02

Useable to sitting/standing and wheelchair position

Software

Manufacturer's software for patient data, filters and image analysis

Manufacturer's DICOM support software for image printing on DICOM Printer

Branded PC with following configurations:

Ci7 4th Generation, 4GB RAM, 1TB Hard Disk, 1GB Dedicated Graphic Card & 23" HD LED Monitor with Keyboard & Mouse

Optional :

Pure Sine wave Online UPS to take load of X-ray, PC and DICOM Printer with 10-15 Backup time

DICOM Printer (Agfa / Carestream / Fuji or equivalent)

Exposure controller with LCD display to show selected exposure parameters

| | |
|--|---|
| Generic Name | 3D Digital Dental Panoramic and Cephalometric X-Ray Unit (CBCT) |
| Clinical Purpose | A panoramic radiograph is a panoramic scanning dental X-ray of the upper and lower jaw. It shows a two-dimensional view of a half-circle from ear to ear. Panoramic radiography is a form of tomography; thus, images of multiple planes are taken to make up the composite panoramic image, where the maxilla and mandible are in the focal trough and the structures that are superficial and deep to the trough are blurred. |
| TECHNICAL SPECIFICATIONS | |
| <p>3-Dedicated sensors for 3D, 2D Panoramic and Ceph applications</p> <p>3-point patient immobilization positioning</p> <p>Automatic Patient positioning by Occlusal bite block and O2 laser beam system</p> <p>Automatic adjustment to the jaw width</p> <p>Automatic radiation management for different images</p> <p>Directly connectable to the network (Should has its own IP)</p> <p><u>Programs:</u></p> <p>Panoramic with 3D Slice</p> <p>Standard panoramic</p> <p>Image of left or right-hand side</p> <p>Image of individual quadrants</p> <p>Image of upper or lower jaw</p> <p>Constant magnification of Dentition</p> <p>Artifact-reduced image</p> <p>Thick-layer images of anterior teeth, both jaws</p> <p>Maxillary Sinus image program</p> <p>Temporo mandibular joint</p> <p>Bitewing image</p> <p>PA, AP and Corpus View program through Ceph Arm</p> <p><u>Technical Data</u></p> <p>Modes: Standard and High Definition</p> | |

3D Sensor: Flat panel detector
2D Sensor: Direct conversion sensor
Scan time: 2.5 -14 sec. or better
Exposure time: 14 sec. or better
Re-construction time: approx. 4-5 min. or better
Patient position: Standing / sitting/wheel chair
KV range: 60-90 KV
mA range: 3-16 mA
Imaging software: DICOM compatible

Software

Manufacturer's software including the following features:
Implant planning, Reporting, Crown and implant library, Nerve locator
DICOM software for printing the images on DICOM Printer

Accessories:

Compatible Branded PC with Manufacturer recommended specifications (Documentary proof will be required) & HD LED Monitor with Keyboard & Mouse
Pure Sine wave UPS to take load of X-ray, PC and Printer
Compatible DICOM Printer (Agfa/Fuji/Kodak or equivalent)

Optional:

Remote Exposure controller with LCD display to show selected exposure parameters

| | |
|--|--|
| Generic Name | 3D Digital Dental Panoramic and Cephalometric X-Ray Unit (CBCT) |
| Clinical Purpose | A 3D panoramic radiograph is a panoramic scanning dental X-ray of the upper and lower jaw. It shows a two-dimensional view of a half-circle from ear to ear. Panoramic radiography is a form of tomography; thus, images of multiple planes are taken to make up the composite panoramic image, where the maxilla and mandible are in the focal trough and the structures that are superficial and deep to the trough are blurred. |
| TECHNICAL SPECIFICATIONS | |
| <p>3-point patient immobilization positioning</p> <p>Automatic Patient positioning by Occlusal bite block and O2 laser beam system</p> <p>Automatic adjustment to the jaw width</p> <p>Automatic radiation management for different images</p> <p>Directly connectable to the network (Should has its own IP)</p> <p><u>Programs:</u></p> <p>Panoramic with 3D Slice</p> <p>Standard panoramic</p> <p>Image of left or right-hand side</p> <p>Image of individual quadrants</p> <p>Image of upper or lower jaw</p> <p>Constant magnification of Dentition</p> <p>Artifact-reduced image</p> <p>Thick-layer images of anterior teeth, both jaws</p> <p>Maxillary Sinus image program</p> <p>Temporo mandibular joint</p> <p>Bitewing image</p> <p>PA, AP and Corpus View program through Ceph Arm</p> <p><u>Technical Data</u></p> <p>Volume: 8x8cm in single exposure without stitching or better</p> <p>Modes: Standard and High Definition</p> | |

3D Sensor: Flat panel detector

2D Sensor: CCD

Scan time: 2-5 sec. or better

Exposure time: 14 sec. or better

Re-construction time: approx. 1.5 min. or better

Visualization time: approx. 4.5 min. or better

Patient position: Standing / sitting

KV range: 60-90 KV

mA range: 3-16 mA

Imaging software: DICOM compatible

Exposure controller with LCD display to show selected exposure parameters

Software

Manufacturer's software including the following features:

Implant planning, Reporting, Crown and implant library, Nerve locator

DICOM software for printing the images on DICOM Printer

Branded PC with following specifications:

Ci7 4th Generation, 8GB RAM, 2TB Hard Disk, 2GB Dedicated Graphic Card & 23" HD LED Monitor with Keyboard & Mouse

Accessories:

DICOM Printer (Agfa / Care stream / Fuji or equivalent)

Optional (If any):

Pure Sine wave Online UPS to take load of X-ray, PC and DICOM Printer with 10-15 Backup time

Exposure controller with LCD display to show selected exposure parameters

| | |
|--|----------------------------------|
| Generic Name | Electric Motor Slow Speed |
| Clinical Purpose | Dental Bone Cutting, Drilling. |
| TECHNICAL SPECIFICATIONS | |
| <p>Brushless micro motors electronically controlled with perfection.</p> <p>Always provide constant maximum torque over a wide speed range of approx. 100-40,000 rpm.</p> <p>All motors and adapters have an anti-retraction valve, maintenance-free and can be sterilized at up to 134°C.</p> <p>Built-in Electric Motor</p> <p>Speed range: 1000-40000 or better rpm</p> <p>Torque: 3.0 Ncm Approx</p> | |

APPROVED PVMS

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|--|--|
| Generic Name | Ultrasonic Cleaner |
| Clinical Purpose | It uses to sterilize dental instruments. |
| TECHNICAL SPECIFICATIONS | |
| <p>Should have capacity of 06-09 liter</p> <p>A table top ultrasonic cleaner</p> <p>Microprocessor controlled</p> <p>Digital display control panel</p> <p>Degassing time setting</p> <p>Cleaning time programmable from 0-99 min.</p> <p>Temperature up to 70C°</p> <p>Jet program function for quick and easy cleaning cycles</p> <p>Sweep mode system</p> <p>Transducers: 2-3</p> <p>Power consumption: 180W or better</p> <p>Voltage: 230V / 50Hz</p> | |
| Standard accessories | |

| | |
|---|---|
| Generic Name | Amalgamator |
| Clinical Purpose | A dental apparatus that mixes a material of "silver" used for tooth fillings called amalgamator |
| TECHNICAL SPECIFICATIONS | |
| <p>High Speed Mixer for pre-measured amalgam capsules</p> <p>Microprocessor controlled</p> <p>Noiseless operation</p> <p>Full electrical safety</p> <p>Maintenance free</p> <p>Oscillating range: 25mm</p> <p>Mixing frequency: 4000 vibrations/min</p> <p>Made of injection moulded material</p> <p>Dis-activated when the front cover is open</p> | |

APPROVED PVMS

| | |
|---|-------------------------------------|
| Generic Name | Endo Motor |
| Clinical Purpose | Use in Root Canal Treatment (R.C.T) |
| TECHNICAL SPECIFICATIONS | |
| <p>Portable unit to perform root canal preparation in several treatment rooms.</p> <p>Battery-powered unit and can be used during charging.</p> <p>Should have integrated apex locator</p> <p>The machine should have file library</p> <p>User interface for easy operation with tillable display for optimum view.</p> <p>Integrated apex locator for optimal measuring accuracy without a file clamp when using the contra-angle hand piece.</p> <p>Automatic Motor Stop</p> <p>Rotation Clockwise and anticlockwise</p> <p>Wire / Wireless Treatment</p> <p>The unit should be equipped with a storage battery with the backup time of 2 hours or better.</p> <p>Removable and disinfected Motor Holder</p> <p>Frequency: 50-60Hz</p> <p>Power: 30W or better</p> <p>Motor Speed: 1200 -13000 rpm or better</p> <p>Torque: 0.3 - 5 Ncm</p> | |

| | |
|---|-------------------------------|
| Generic Name | Central Suction System |
| Clinical Purpose | Suction Unit |
| TECHNICAL SPECIFICATIONS | |
| <p>Dry air suction system (for treatment chairs and with the provision of simultaneous operations end users to specify the quantity)</p> <p>High quality robust drive motors</p> <p>Reliable continuous operation</p> <p>High quality condensate separator to protect the unit from condensate</p> <p>Runners made from corrosion-resistant plastic</p> <p>Vacuum mbar : 400-600 (mm HG)</p> <p>Noise level: 70 dB(A)</p> | |

APPROVED PVMS

| | |
|--|--|
| Generic Name | Central Compressor System |
| Clinical Purpose | Provide Compress air to operate dental unit and accessories. |
| TECHNICAL SPECIFICATIONS | |
| <p>Unique single stage oil free reciprocating compressor designed for operating at maximum working pressure of 10 bar with the capacity of 960l/min with desicant dryer dryer mounted on the receiver tank suitable for 25 units (in case of lower or higher no. of units, air delivery and other feathurs to be defined by the end user / biomedical engineer)</p> <p>Working pressure: 8 bar</p> <p>Free Air delivery at 10 bar: 960 l/min / or more</p> <p>Noise level: 86 dB (A) or less</p> <p>Dryer type: Dessicant type (During the warranty period consumables will be the responsibility of supplier firm)</p> <p>Air Receiver: 500 Liter</p> | |

APPROVED PVMS

| | |
|---|--|
| Generic Name | Oil Free Air Compressor for 1x Dental Unit |
| Clinical Purpose | Provide Compress air to operate dental unit and accessories. |
| TECHNICAL SPECIFICATIONS | |
| <p>Free Air Delivery: 110 l/min or more</p> <p>Tank Capacity: 24 Liter</p> <p>Noise Level: 75 dB(A) or loss</p> <p>Working Pressure: 8 bar</p> <p>Revolution: 1400 rpm /min</p> | |

APPROVED PVMS

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|--|---|
| Generic Name | Water Distiller |
| Clinical Purpose | Use to make distilled water from tap water for dental autoclave and surgical accessories. |
| TECHNICAL SPECIFICATIONS | |
| Capacity: 4 Liters Voltage: 230V / 50Hz | |

APPROVED PVMS

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|---|----------------------------------|
| Generic Name | Phantom Head Lab |
| Clinical Purpose | Uses for dental teaching Purpose |
| TECHNICAL SPECIFICATIONS | |
| <p>Dentist element with dual joint arm</p> <p>Pneumatic foot control</p> <p>Standard 3-way syringe</p> <p>2 turbine hoses</p> <p>LED light</p> <p>Operating light</p> <p>Manual height adjustment</p> <p>Manual tilt adjustment</p> <p>Torso with phantom head</p> <p>Easy Pad</p> <p>Operating element</p> <p>Standard</p> <p>(To be fixed with simulator)</p> | |

APPROVED PVMS

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|---------------------------------------|---|
| Generic Name | Surgical Electric Micro Motor with Straight and Contra Angle Surgical Hand Piece |
| Clinical Purpose | Use for Oral Surgical Procedures. |
| TECHNICAL SPECIFICATIONS | |
| Max. torque at the rotary instrument: | 80 Ncm or better |
| Documentation: | USB or more |
| Max. mechanical output power: | 100 W |
| Max. torque at the motor: | 7 Ncm |
| Length of motor cable: | 1.8 m, 3.5 m |
| Provision of Foot control | |

APPROVED PVMS

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|--|------------------|
| Generic Name | Condenser |
| Clinical Purpose | |
| TECHNICAL SPECIFICATIONS | |
| Abbe condenser, N.A. 1,25 with centering system. | |

APPROVED PVMS

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|--|--|
| Generic Name | Piezoelectric Surgery (bone cutting) kit for oral and maxillofacial surgery |
| Clinical Purpose | Use for pre-implant/ oral surgical procedures |
| TECHNICAL SPECIFICATIONS | |
| Powerful, reliable and safe components dedicated to ultrasonic pre-implant surgery | |
| Accessories: 1 boosted ultrasonic hand piece 1 footswitch with arch 1 kit with its dynamometric wrench Optic hand piece | |

APPROVED PVMS

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|--|---|
| Generic Name | Electric Nerve Stimulator |
| Clinical Purpose | Use for electric current produced by a device to stimulate the nerves for therapeutic purposes. |
| TECHNICAL SPECIFICATIONS | |
| <p>Nerve stimulator accessory for non-invasive superficial nerve location</p> <p>For easy stimulation of superficial nerves through the skin</p> <p>Helps to reduce prolonged needle manipulation</p> <p>Teaching tool in the preparation room and for workshop settings</p> | |

APPROVED PVMS

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|---|--|
| Generic Name | Multi-vector intra-oral bone distractors and distractors for implant augmentation |
| Clinical Purpose | Use for mandible distractions. |
| TECHNICAL SPECIFICATIONS | |
| <p>The Micro TRACK is perfectly suited for distracting single-tooth segments and bone segments with an kylosed tooth.</p> <p>For distracting small, partial defects of the alveolar ridge segment.</p> <p>Intended for alveolar ridge segments comprising approx. three to four teeth (35 mm).</p> <p>For larger alveolar ridge segments up to a width of 60 millimeters.</p> <p>Intended for highly atrophied and edentulous segments of the mandibular front.</p> | |

APPROVED PIVMS

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| Generic Name | Arthroscopic diagnostic system for temporo mandibular joint in oral and maxillofacial surgery |
| Clinical Purpose | |
| TECHNICAL SPECIFICATIONS | |
| <p>Sterile procedure kit Working length: 60mm Procedure kit contents: sterile barrier sheath, cannula, trocar Illumination sheath diameter: 1.8mm Cannula diamer: 2mm Trocar diameter: 1.8mm</p> <p>Needle endoscopes Working length: 60mm Endoscope diameter: 1.4mm FOV: 75 degree in air Focus distance: 8mm from distal tip window Depth of field: 4mm</p> <p>Camera Control Unit Function: 4 in1 camera, light, mini PACS, touch screen display unit Video output: compatible with all HDTV surgical displays: DVI (1), HD-SDI (2), 1920x1080 Px Built-in LCD Display: 21 cm diagonal touch screen / 400:a contrast Accessory Ports: USB (3), SD Multimedia card, Ethernet, WiFi</p> <p>Camera Head Function: Camera head with illumination source Imager / resolution: 3 chip HDTV high sensitivity & low noise Full 1920x1080 px without intenpolation Video output: HDTV serial digital interface Light output port: 1.5mm diameter fiber optics</p> | |

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|--|---|
| Generic Name | Surgical endoscope for oral and maxillofacial use |
| Clinical Purpose | Small incisions or natural body openings in order to diagnose and treat disease |
| TECHNICAL SPECIFICATIONS | |
| <p>Semi flexible miniature endoscopes for exploring the salivary ducts and removing salivary stones</p> <p>Sialendo scopes with integrated irrigation and working channels</p> <p>5° curvature at the distal tip or nitinol outer sheath</p> <p>Enables the minimally invasive removal of obstructions in the salivary ducts</p> <p>Optimal reprocessing as sialendo scopes are autoclave able</p> <p>cm-marking at the distal working end for reading the penetration depth</p> | |

APPROVED BY VMS

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|---|---|
| Generic Name | Cryosurgical unit for oral and maxillofacial surgery |
| Clinical Purpose | Use of extreme cold in surgery to destroy abnormal or diseased tissue |
| TECHNICAL SPECIFICATIONS | |
| <p>Should have four spray tips with apertures of various sizes (.04 - .016 inches) plus a 20-gauge straight spray and 20-gauge bent spray for more accurate, controlled treatments</p> <p>Fingertip trigger provides maximum control and easy viewing; rotates for left-handed users</p> <p>Safety Auto vent enhances safety by gradually venting internal pressure as cap is unscrewed</p> <p>Streamlined relief valve maintains constant operating pressure for consistent, accurate freezing</p> <p>Stainless steel and brass construction ensures long life</p> <p>Polypropylene base provides extra stability while polypropylene cover and collar insulate user's hand</p> <p>Capacity: 16 oz. (500ml)</p> <p>Static Holding Time: 20 to 24 hours</p> | |

APPROVED PVMS

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| Generic Name | CPR manikins with AED |
| Clinical Purpose | AED is a device use to diagnoses the life-threatening cardiac arrhythmias of ventricular fibrillation and ventricular tachycardia in a patient |
| TECHNICAL SPECIFICATIONS | |
| <p>Complete anatomical marks on body.</p> <p>Prominent chest rise during ventilation.</p> <p>Complete head tilt and chin lift</p> <p>Audible compression clicker for quality assurance of chest compression.</p> <p>Washable skin</p> <p>Navel present</p> <p>Nasal airway passage</p> <p>End user specified sizes, infant full body, paed, adult</p> | |

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|--|--|
| Generic Name | Therabite TMJ exerciser |
| Clinical Purpose | Therabite is a hand operated device that provides a simple option for jaw hypomobility and dysfunction |
| TECHNICAL SPECIFICATIONS | |
| For the Teaching Aid purpose, End-user to define the generalized specifications. | |

APPROVED PVMS