

Details of the High End Equipment



ARMY COLLEGE OF DENTAL SCIENCES

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NAAC Accredited 'A' & Certified ISO 9001 : 2015 & ISO 14001 : 2015

Details Of The High End Equipment

1. Cone Beam Computed Tomogram
2. Imaging & Morphometric Software Digital Cephalometric
3. Endoscopic Microscope
4. Dental Laser Unit
5. Light Based Microscopy (Phase Contrast Microscopy)



(Dr. S Subramanya Sharma)

Principal

Army College of Dental Sciences

Cone Beam Computed Tomogram



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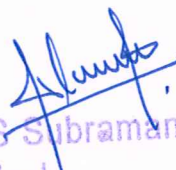
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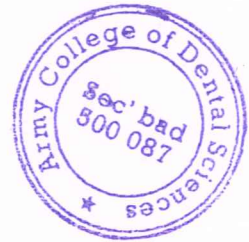
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1. Cone Beam Computed Tomogram

- Name Of Equipment: NEWTON GO 2D/3D
- Software: NTT Viewer
- Supplier: Villa India
- Serial No: C70B01197
- Commission Date: 18th September 2021
- CRV No: 34dt 18/09/2021
- Aerb Licensing:
- Issue Date : 27/10/2021
- Expiry Date: 27/10/2031
- No Of CBCT (30 December 2021):153
- CBCT Provided By: DVD


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**Imaging & Morphometric
Software Digital
Cephalometric**



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2. Imaging & Morphometric Software for Digital Cephalometric

- **Name:** Nemoceph Orthodontics Tracing & Treatment Planning Software.
- **Specifications:**
 - Nemoceph: 2D
 - Version: 10
 - Build: 10.4.2.58
 - Serial No.: 12205
 - Technical Support: 2016 – 2020

Technical Requirements:

- Operating System: Windows 7/8/10 – 64bit
- RAM: 16GB
- Graphics: NVIDIA – 2GB


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Endodontic Microscope



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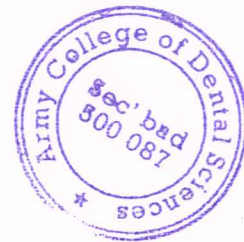
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3. Endoscopic Microscope

- Installed In The Year 2010 And 2011
- Dental Operating Microscope(Seiler) And Dental Operating Microscope Prima DNT[F250]
- SE No=94722010 And 201111471
- Model No=600 And 6138000
- With Dual Iris, Double Beam Splitter And Adapter For DSLR Camera
- Installed In The Year 2020(March)
- Dental Operating Microscope [LABOMED]
- Model=613800
- SN: 200110921
- Dual Iris, Double Beam Splitter And Adapter For DSLR Camera

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Dental laser Unit



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4. Dental Laser Unit

A. Unit 1:

Purchased On: 05-11-2011

Purchased From: Hyderabad Depot

Cost: 3, 41,000

B. Unit 2:

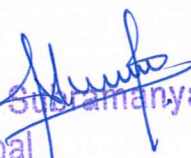
Purchased On: 04-12-2020

Purchased From: Hyderabad Depot

Cost: 2, 65,000

Laser Unit -1

- **Item** - Picasso Dental Diode Laser
- **Company** AMD Lasers
- **Warranty** 2 Years
- **Weight** 1 Kg (2 Pounds)
- **Power** 7.0 Watts
- **Wavelength** 810 Nm


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- **Dimensions** 14 X 22 X 16 Cm
(5.5 X 8.6 X 6.3 Inches)
- **Dental Applications**

Soft Tissue Surgery
Periodontal
Hygiene

Endodontic
Whitening/Bleaching
- **Laser Classification** Class 4 Laser
- **Operating Voltage** 110 - 240 Volts
- **Available Tips And Sizes** Disposable Tips
Variety Of Shapes, Sizes, And Angles
- **Tip Sterilization Method** Disposable Tips
Autoclavable Tip (Dental Handpiece)
- **Handpiece Type / Swivel**

Straight :Accepts Standard Cannulas
Multi-Tip
Fiber : Strippable
3 Meter Fiber
- **Control Panel**

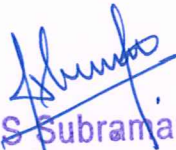
Full Color
Multiple Language
Touch-Screen Menu
- **Foot Operation** Wireless
- **Portable** Yes

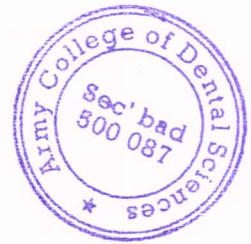


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Laser Unit 2

- Dimensions. 13cmx19cmx18cm
- Weight 1.5kg
- Wavelength 810+/-10nm
- Output Power 0.5~7W
- Operation Modes Continuous Wave (CW) Or Pulsed
- Delivery Fiber 200um And Up Single Core Fiber
- Aiming Beam 650nm / 1mw Maximum Output
- Power Consumption 100~220VAC, 50/60Hz
- Type Of Laser Diode, Aigaas
- Laser Port SMA 905


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Light Based Microscopy



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5. Light Based Microscopy (Phase Contrast Microscopy)

Specifications:

a. Phase Contrast Attachment For Research Microscope

Purchased On: 28-01-2015

Purchased From: Lawrence & Mayo(India) Pvt

Cost: 55000

- Comprising Of Turret Type Phase Condenser With Phase Plates.
- 10x, 20x, 40x, 100x Plan Objectives With CT Eyepiece And Fifth Position For Bright Field Microscopy
- **Dental Applications:**
 - Particularly Used In Bacteriology And To Confirm The Presence Of Parasites In Oral Tissues And Oral Fluids.
 - It Is Also Used To Study Of Living Cells Without Having To Modify Them Through Staining.
 - Sub Cellular Particles Such As Nuclei And Organelles Can Also Be Viewed In Detail.

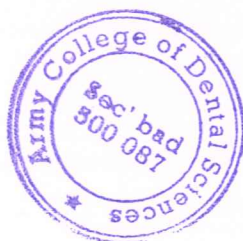
b. Dark Field Attachment For Research Microscope

Purchased On: 28-01-2015

Purchased From: Lawrence & Mayo(India) Pvt

Cost : 33000

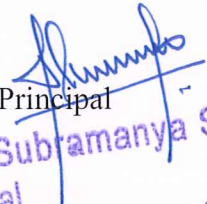
- Comprising Of Dark Ground Condenser N A 1.25 With IRIS Diaphragm Supplied With 100x Oil Plan Objective With Build In Field Diaphragm
 - **Dental Applications:**
 - Used In Research Of Live Bacterium, And Mounted Cells And Tissues.



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- Used For Examining The External Details Such As Outlines, Edges, And Surface Defects.




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