



# MANSAROVAR DENTAL COLLEGE

Mansarovar Campus, Rani Avanti Bai Marg, Village- Hinotia Aalam,

Ward No. 84, Kolar Road, Bhopal (M.P) 462042

Tel: +91-9111777225, 761158888. Website: [www.mansarovardentalcollege.com](http://www.mansarovardentalcollege.com)

## **4.2.1 The list of facilities available for patient care, teaching – learning and research**



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## 4.2.1 List of facilities available for patient care, teaching-learning, and research

### I- *ICT enabled tools for teaching-learning*

1. Tata edge smart classes
2. Epson LCD projectors
3. Wireless and collar mikes
4. Digital library- e learning resources
5. Internet through wifi and lan facilities
6. Computers and 1 tb harddisk

### **ICT facilities**

1. Smart class-2
2. Lecture halls -4
3. Auditorium-1
4. Seminar rooms-4

Smart classrooms are enabled with advanced ICT tools to make learning easy and interesting. 2 lecture halls, an auditorium, and all seminar rooms are equipped with 7 LCD projectors and wifi facilities to uplift learning efficiency of students.

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## II- Preclinical laboratories

1. Conservative
2. Prosthodontics

## III- Advanced training equipment

1. Operating microscope
2. OPG
3. Microtome
4. Soft tissue lasers
5. NEMOCEPH software for cephalometrics
6. Special clinics
7. Implant physiodispenser and implant drill kit

## IV.- Library

1. Departmental library - 9
2. Central library

S. No.	Title	Number
1.	Lecture halls	04
2.	Smart Classroom	02
3.	Seminar rooms	04
<b>Laboratories for I year students</b>		
1.	Physiology lab	01
2.	Biochemistry Lab	01
3.	Human anatomy and embryology Lab	01
4.	Dental anatomy and histology Lab	01

  
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<b>Laboratories for II year students</b>		
1.	General Pathology lab	01
2.	Microbiology Lab	01
3.	Pharmacology Lab	01
4.	Dental material Lab	01
5.	Pre-clinical Prosthodontics lab	01
6..	Pre-clinical conservative dentistry Lab	01
<b>Laboratories for III &amp; IV year students</b>		
1.	Oral pathology and Microbiology lab	01
2.	Department of Oral medicine and Radiology	01
3.	Department of Conservative dentistry and Endodontics	01
4.	Department of Oral and Maxillofacial surgery	01
5.	Department of Periodontics	01
6.	Department of Prosthodontics and crown and bridge	01
7.	Department of Public Health Dentistry	01
8.	Department of Pediatric and Preventive dentistry	01
9.	Department of Orthodontics	01
<b>Library</b>		
1.	Department Library	09
2.	Central Library	01

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## EQUIPMENTS :-

### DEPARTMENT: CONSERVATIVE DENTISTRY AND ENDODONTICS

S. No.	NAME
1.	Dental Chairs and Units
2.	Endosonic handpieces – Micro endosonic Tips, retro treatment
3.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems
4.	Rubber dam kit
5.	Autoclaves for bulk instrument sterilization vacuum (Front loading)
6.	Autoclaves for hand piece sterilization
7.	Apex locators one for every two chairs
8.	Pulp tester
9.	Equipments for injectable thermoplasticized gutta percha
10.	Operating microscopes 3 step or 5 step magnification
11.	Surgical endo kits (Microsurgery)
12.	Set of hand instruments (specifications required)
13.	Sterilizer trays for autoclave
14.	Ultrasonic cleaner capacity 3.5 lts
15.	Variable Intensity polymerization equipments - VLC units
16.	Conventional VLC units one for every two chairs
17.	Needle destroyer
18.	Magnifying loupes one for students and one for faculty

  
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S. No.	NAME
19.	LCD projector
20.	Composite kits with different shades and polishing kits
21.	Ceramic finishing kits, metal finishing kits
22.	Amalgam finishing kits
23.	RVG with x-ray machine developing kit
24.	Chair side micro abrasion
25.	Bleaching unit
26.	Instrument retrieval kits
27.	Computer with internet connection with attached printer and scanner
28.	Refrigerator
29.	Equipments for casting procedures
30.	Equipments for ceramics including induction casting machines/ burnout preheat furnaces/ wax elimination furnaces
31.	Lab micro motor/ metal grinders / sand blasters/ polishing lathes/ duplicator equipment/ vacuum investment equipments
32.	Laser (preferably hard tissue)
33.	Face bow with semi adjustable articulator

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## DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

S. No.	NAME
1.	Electrical Dental Chairs and Units
2.	Articulators – semi adjustable/ adjustable with face bow
3.	Micromotor – (Lab Type can also be attached (fixed) to wall
4.	Ultrasonic scaler
5.	Light cures
6.	Hot air oven
7.	Autoclave
8.	Surveyor
9.	Refrigerator
10.	X-ray viewer
11.	Pneumatic, Crown bridge remover
12.	Needle destroyer
13.	Intra oral camera
14.	Digital SLR camera
15.	Computer with internet connection with attached printer and scanner
16.	LCD projector
<b>Clinical Lab for Prosthetics</b>	
1.	Plaster dispenser
2.	Model trimmer with carborandum Disc

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S. No.	NAME
3.	Model trimmer with diamond disc
4.	High speed lathe
5.	Vibrator
6.	Acrylizer
7.	Dewaxing unit
8.	Hydraulic press
9.	Mechanical press
10.	Vacuum mixing machine
11.	Micro motor lab type
12.	Curing pressure pot
13.	Pressure molding machine
<b>Chrome – Cobalt Lab Equipment</b>	
1.	Duplicator
2.	Pindex system
3.	Burn-out furnace
4.	Welder
5.	Sandblaster
6.	Electro – polisher
7.	Model trimmer with carborandum disc
8.	Model trimmer with diamond disc
9.	Model trimmer with double disc (one Carborandum and one diamond disc)

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S. No.	NAME
10.	Casting machine, motor cast with the safety door closure, gas blow torch with regulator
11.	Dewaxing furnace
	Induction casting machine with vacuum pump, capable of casting titanium chrome cobalt precision metal
12.	Spot welder with soldering, attachment of cable
13.	Steam cleaner
14.	Vacuum mixing machine
15.	Spindle grinder 24,000 ROM with vacuum suction
16.	Wax heater
17.	Wax carvers (Full PKT Set)
18.	Milling machine
19.	Stereo microscope
20.	Magnifying work lamp
21.	Heavy duty lathe with suction
22.	Preheating furnace
23.	Dry model trimmer
24.	Die cutting machine
25.	Ultrasonic cleaner
26.	Composite curing unit
<b>Ceramic Lab Equipment</b>	
1.	Fully programmable porcelain furnace with vacuum pump

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S. No.	NAME
2.	Ceramic kit (instruments)
3.	Ceramic materials (kit)
4.	Ceramic polishing kit
<b>Implant Equipment</b>	
1.	Electrical dental chair and unit
2.	Physio dispenser
3.	Implant kit
4.	Implants
5.	Prosthetic components
6.	Unit mount light cure
7.	X-ray viewer
8.	Needle destroyer
9.	Ultrasonic cleaner capacity 3.5 lts
10.	Autoclave programmable for all recommended cycles
11.	X-ray machine with RVG
12.	Refrigerator
13.	Surgical kit/prosthetic kit
14.	Educating models
15.	Implant removing instruments

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## DEPARTMENT: PERIODONTICS

S. No.	NAME
1.	Dental Chairs and Units
2.	Auto clave (fully automatic) front loading
3.	Steel bin
4.	Airoter hand pieces
5.	UV chamber
6.	Formalin chamber
7.	W.H.O probe
8.	Nabers probe
9.	Williams probe
10.	UNC-15 probe
11.	Gold Man fox probe
12.	Pressure sensitive probe
13.	Marquis color coded probe
14.	Supra gingival scalers
15.	Sub gingival scaler
16.	Arkansas sharpening stone
<b>Surgical Instruments</b>	
1.	Routine surgical instrument kit (Benquis periosteal elevator, periotome)
2.	Surgery trolleys
3.	X ray viewer
4.	Surgical cassette with sterilization pouches

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S. No.	NAME
5.	Electro surgery unit
	Special Surgical Instruments
1.	Kirkland's knife
2.	Orban's knife
3.	Paquette blade handle
4.	Krane kaplan pocket marker
5.	Mc Calls universal curettes
6.	Gracey's curettes (No.1-18)
7.	Mini five curettes
8.	Cumine scalar
9.	Mallet
10.	Chisel
11.	Oschenbein chisel
12.	Schluger bone file
13.	Bone fixation screw kit
14.	Bone scrapper
15.	Bone trephines for harvesting autografts
16.	Bone regenerative materials
17.	Local drug delivery systems
18.	Root conditioning agent
19.	Micro needle holder

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S. No.	NAME
20.	Micro scissors
21.	Magnifying loop (2.5 – 3.5)
22.	Operating microscope
23.	3 <sup>rd</sup> generation digital probe
24.	Bone expander and bone crester
25.	Distraction osteogenesis kit
26.	Bone mill
27.	Bone graft / membrane placement spoon
28.	Bone condenser
29.	Peizo-surgery unit
30.	Centrifuge for PRP/PRF preparation
31.	Soft tissue laser (8 watt)
32.	Osteotome
<b>MISCELLANEOUS INSTRUMENTS</b>	
1.	Composite gun with material kit
2.	Splinting kit with material
3.	Composite finishing kit
4.	Glass Ionomer cement
5.	Digital camera
6.	Intra Oral camera
7.	Ultrasonic cleaner

  
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S. No.	NAME
8.	Emergency kit
9.	Refrigerator
10.	X-ray viewer
11.	LCD projector
12.	Computer with internet connection with attached printer and scanner
13.	Implant Equipment
14.	Electrical dental chair and unit
15.	Physio dispenser
16.	Implant kit
17.	Implants
18.	Implant maintenance kit (plastic instruments)
19.	Implant guide
20.	X-ray viewer
21.	Needle destroyer
22.	Ultrasonic cleaner capacity 3.5 lts
23.	Autoclave programmable for all recommended cycles
24.	RVG with x-ray machine
25.	Refrigerator
26.	Surgical kit
27.	Sinus lift kit
28.	Educating models
29.	Implant removing kit

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## DEPARTMENT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

S. No.	NAME
2.	Dental Chairs and Unit
3.	Vacuum /pressure moulding unit
4.	Hydrogen soldering unit
5.	Lab micromotor
6.	Spot welders
7.	Model trimmer (Double disc)
8.	Light curing unit
9.	High intensity light curing unit
10.	Polishing lathes
11.	Tracing tables
12.	SLR digital camera
13.	Scanner with transparency adapter
14.	X-ray viewer
15.	LCD projector
16.	Autoclaves for bulk instrument Sterilization vacuum (Front loading)
17.	Needle destroyer
18.	Dry heat sterilizer
19.	Ultrasonic scaler
20.	Sets of Orthodontic pliers
21.	Orthodontic impression trays

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S. No.	NAME
22.	Ultrasonic cleaner capacity 3.5 lts
23.	Electropolisher
24.	Typhodonts with full teeth set
25.	Anatomical articulator with face bow attachments
26.	Free plane articulators
27.	Hinge articulators
28.	Computer software for cephalometrics
29.	Computer with internet connection with attached printer and scanner
30.	Refrigerator

## DEPARTMENT: ORAL PATHOLOGY AND ORAL MICROBIOLOGY

S. No.	Name
1	Dental Chairs and Units
2	Slides
3	Slides Boxes
4	Microscopes
5	Microtome
6	Wax bath
7	Water bath
8	Knife sharpner

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S. No.	Name
9	Hot plate
10	Spencer knife
11	Adequate slides projection system

## DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

S. No.	Name
1	Dental Chairs and Units
2	Autoclaves
3	Ultrasonic Cleaner
4	Needle burner with syringe cutter
5	Extraction forceps sets
6	Dental elevators
7	Minor Oral surgery kits
8	Emergency drugs tray
9	X-ray viewers
10	Pulse Oxymeter
11	BP appartus
12	Stethoscope
13	Thermometer
14	Glucometer
15	Oxygen cylinder
16	Oxygen mask adult

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17	Oxygen mask Pedo
18	Impaction kit
19	Lab micromotor with handpiece
20	Trauma kit
21	High volume suction
22	Surgical straight hand piece
23	Minor Surgery Unit

## DEPARTMENT: PAEDIATRIC AND PREVENTIVE DENTISTRY

S. No.	Name
1	Dental Chairs and Units
2	Autoclaves
3	Ultrasonic cleaner
4	Needle Burner with syringe cutter
5	Amalgamator
6	Pulp Tester-Digital
7	Rubber dam kit for pedo
8	Apex locator
9	Endo motor
10	Injectable gutta percha with condensation
11	Radiovisiography
12	Intra Oral Camera
13	Scaling instruments
14	Restorative instruments
15	Extraction forceps
16	Intra-oral X-ray
17	RCT Instruments Kits
18	Automatic Developer

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PEDO LAB	
1	Plaster dispenser
2	Model Trimmer
3	Model Trimmer
4	Welder with soldering attachments
5	Vibrator
6	Lab micro motor
7	Dental Lathe
8	Steam cleaner
9	Pressure moulding machine

## DEPARTMENT: ORAL MEDICINE AND RADIOLOGY

S. No.	Name
1	Dental Chairs and Units
2	Panoramic X-Ray with Cephalometric
3	Intra Oral X-ray Unit
4	Pulp testers
5	Automatic periapical X-ray Developer
6	Automatic Panoramic with Cephalometric X-ray Developer
7	X-ray viewer
8	Radiovisiography with Intra Oral Camera
9	General X-ray Unit
10	Automatic Developers/ <i>Dark Room</i>
11	Lead Aprons
12	Lead Gloves
13	Lead collar
14	X-ray Hangers
15	Diagnostic Kits

  
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S. No.	Name
16	Lead Screen
17	Biopsy Kit
18	Autoclave
19	Needle Burner with Syringe Cutter
20	CBCT
21	Diagnostic kit
22	Biopsy Kit
23	Sialography equipment & Kit

## DEPARTMENT: PUBLIC HEALTH DENTISTRY

S. No.	NAME
1	Dental Chairs and Units
2	Autoclaves
3	Ultrasonic cleaner
4	Needle burner with syringe cutter
5	Mobile clinic
6	Mobile dental van
7	Dental chair with unit
8	Autoclaves
9	Intraoral x-ray

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S. No.	NAME
10	Glass bead sterilizers
11	Compressor
12	Metal Cabinet
13	Portable dental chair
14	Stabilizer
15	Generator
16	Water tank
17	Oxygen cylinder
18	Public address system
19	TV and video cassette player
20	Demonstration models

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