

## EQUIPMENT REQUIREMENTS

As per Revised BDS Course Regulations, 2007

Department: Oral Medicine and Radiology

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
	(Space allocation for each dental chair 100 Sq.Ft. in all the Departments)				
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, Air Ventry Suction, X-Ray viewer, 3 way syringe, instrument tray, Dental Operator's Stool with height adjustment	6	12	12+4 radiology	Adequate
Panoramic X-Ray with Cephalometric	Preferably digital	1	1	1	Adequate
Intra Oral X-ray Unit	70 KV, 8 mA, high frequency preferably Digital timer	2	3	3	Adequate
Pulp testers	Digital			3	Adequate
Automatic periapical X-ray Developer		1	1	1	Adequate
Automatic Panoramic with Cephalometric X-ray Developer		1	1	1	Adequate
X-ray viewer	For Panoramic and Cephalometric films	2	2	2	Adequate
Radiovisiography	Digital Intra X-ray system with one Sensor and Software	1	1	1	Adequate
General X-ray Unit		1	1	1	Adequate
Ortho Pantmograph	Preferably digital	1	1	1	Adequate
Automatic Developers / Dark Room		1	2	1	Adequate
Lead aprons		2	2	2	Adequate
Lead Gloves		1	1	1	Adequate
X-ray Hangers		6	6	6	Adequate
X-ray Viewers		2	2	2	Adequate
Diagnostic Kits	Mouth mirror, dental probe, college tweezers	20	40	45	Adequate
Lead Screen		1	1	3	Adequate
Biopsy Kit		1	1	1	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2 sets	Adequate
Computers	Minimum Pentium – IV	1	1	5	Adequate
Intra Oral Camera	With High resolution	1	1	1	Adequate
Needle Burner with Syringe Cutter		2	2	2	Adequate

Department: Oral Pathology and Oral Microbiology

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, Instrument tray and suction	1	2	2	Adequate
Microscopes		20	40	50	Adequate
Microtome		1	1	1	Adequate
Wax bath		1	1	1	Adequate
Water bath		1	1	1	Adequate
Knife sharpener		1	1	1	Adequate
Hotplate		1	1	1	Adequate
Spencer Knife		1	1	2	Adequate

Department: Public Health Dentistry

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, Air Ventury suction, micromotor control light cure 3 way syringe, X-ray viewer, instrument tray Dental Operators stool with height adjustment with shadowless lamp, spittoon, 3 way syringe, instrument tray and suction, micromotor, airtor, light cure	8	16	16	Adequate
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	6	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	2	Adequate
Needle burner with syringe cutter		2	4	4	Adequate

MOBILE CLINIC					
Mobile dental van	Mobile dental van with two dental chairs with all the attachments and adequate sitting space for 15 to 20 people		1	1	Adequate
Dental chair with unit	Hydraulically operated with spittoon attachment, halogen light with 2 intensity, air ventury suction, airtrotor, micromotor, 3 way-scaler and light cure, x-ray viewer, instrument tray, operating stool	2	2	2	Adequate
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	1	1	Adequate
Intraoral x-ray	Portable, 70 KV, 8 mA	1	1	1	Adequate
Glass bead sterilisers		1	1	1	Adequate
Compressor	1.25 HP	1	1	1	Adequate
Metal Cabinet	With wash basin	1	1	1	Adequate
Portable dental chair	Suitcase unit with airtrotor, micromotor, scaler and compressor 0.25 HP	2	2	2	Adequate
Stabiliser	4 KV	1	1	1	Adequate
Generator	4 KV	1	1	1	Adequate
Water tank	400 ltrs	1	1	1	Adequate
Oxygen cylinder		1	1	1	Adequate
Public address system		1	1	1	Adequate

TV and video cassette player		1	1	1	Adequate
Demonstration models		1	1	5	Adequate

Department: Paediatric and Preventive Dentistry

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, high power motorized evacuation system, Air rotor with miniature, Airrotor HPS, Micro motor with miniature contrangle Hand piece, 3 way syringe, ultrasonic sealer with 3 tips, Light cure unit LED based heat free, X-ray viewer, instrument tray Dental Operator's stool with height adjustment (Pedo chair preferred)	10	20	20	Adequate
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2	Adequate
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	1	2	2	Adequate
Needle Burner with syringe cutter		2	3	3	Adequate
Amalgamator		1	1	1	Adequate
Pulp Tester Digital		1	1	1	Adequate
Rubber dam kit for pedo		3	5	5	Adequate
Apex locator		1	1	1	Adequate
Endo motor	With torque control HPs	1	1	1	Adequate
Injectable gutta percha with condensation		1	1	1	Adequate
Radiovisiography	Digital intra X-ray system with pedo sensor and software	1	1	1	Adequate
Intra Oral Camera	With high resolution	1	1	1	Adequate
Scale instruments		5	10	10	Adequate
Restorative instruments		5	10	10	Adequate
Extraction forceps		5	10	10	Adequate
Intra-oral X-ray		1	1	1	Adequate
Automatic Developer		1	1	1	Adequate
Computer	Minimum Pentium – IV	1	1	1	Adequate
<b>PEDO LAB</b>					
Plaster dispenser	One each for plaster and stone plaster	2	2	2	Adequate
Model Trimmer	With diamond disc	1	1	1	Adequate
Model Trimmer	Double disc one diamond and one carborandam disc	1	1	1	Adequate
Welder with soldering attachments		1	1	1	Adequate
Vibrator		2	2	2	Adequate
Lab micro motor	Heavy duty with Hps	2	3	3	Adequate
Dental Lathe		1	1	1	Adequate
Model Trimmer		1	1	1	Adequate

Steam cleaner		1	1	1	Adequate
Pressure moulding machine		1	1	1	Adequate
Carborandum disc		1	1	1	Adequate
Diamond disc		1	1	1	Adequate

Department: Orthodontics

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, Air Ventury suction, micromotor control light cure 3 way syringe, X-ray viewer, instrument tray Dental Operators stool with height adjustment	9	18	18	Adequate
Unit mount scaler		3	5	5	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	2	Adequate
ORTHO LAB					Adequate
Plaster dispenser	One each for plaster and stone plaster	2	2	2	Adequate
Vibrator		2	2	4	Adequate
Model Trimmer		1	2	2	Adequate
Micromotor	Heavy duey	2	4	4	Adequate
Lathe		1	2	2	Adequate
X-ray viewers		2	2	3	Adequate
OPG with cephalostat	If available in radiology its is adequate	1	1	1	Adequate
Welders		2	4	4	Adequate
Blue Torch		1	1	1	Adequate
Base Formers		2	4	4	Adequate
Typodont		2	4	6	Adequate
Set of pliers		5	10	10	Adequate
Welder with soldering attachments		1	1	1	Adequate
Hydro solder		1	1	1	Adequate
Typhodont articulator	With metal teeth wax rim of Class I, II, III	3	4	6	Adequate
Pressure moulding machine		1	1	1	Adequate

Department: Periodontology

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, high power evacuation system, Air Ventury suction, X-ray viewer, Airrotor, Micromotor with straight and contrangle Handpiece, with shadowless lamp, spittoon, 3 way syringe, Ultrasonic sealer with 3 tips, X-ray viewer, instrument tray Dental Operators stool with height adjustment	17	34	34	Adequate
Scaling instrument sets		5	10	10	Adequate
Surgical instrument sets		3	6	6	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	3	Adequate
Ultrasonic scaler	Minimum capacity 13 litres with mesh bucket	1	2	2	Adequate
Electro surgical cautery		1	1	1	Adequate
Needle burner with syringe cutter		4	6	6	Adequate
LASER	Soft tissue laser	1	1	1	Adequate
Surgical motor with physio dispenser		1	1	1	Adequate

Department: Conservative Dentistry and Endodontics

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, high power evacuation system, Air Ventury suction, X-ray viewer, Airrotor, Micromotor with straight and contrangle Handpiece, with shadowless lamp, spittoon, 3 way syringe, Ultrasonic sealer with 3 tips, X-ray viewer, Instrument tray Dental Operators stool with height adjustment	17	34	34	Adequate
Rubber dam kits		4	6	6	Adequate
Restorative instruments kits		5	10	10	Adequate
R.C.T. instrument kits		5	10	10	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	Centralized	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	5 litres	Adequate
Needle Burner with Syringe Cutter		3	4	4	Adequate
Amalgamator	With auto proportion, auto dispenser	2	3	3	Adequate
Rubber dam kits		4	6	6	Adequate
Pulp Tester Digital		2	4	4	Adequate
Apex locator		1	2	2	Adequate
Glass bead		4	6	6	Adequate

sterilizers					
Plaster dispenser		2	2	2	Adequate
Vibrator		1	2	2	Adequate
Ceramic Unit		1	1	1	Adequate
Casting machine		1	1	1	Adequate
Intra-oral X-ray Unit	Proper radiation safety	1	1	1	Adequate
Automatic Developer		1	1	Manual developer	Adequate
Radiovisiography	RVG with Computer	1	1	1	Adequate
Endo motor	With torque control Hps	1	1	1	Adequate
Bleaching Unit		1	1	1	Adequate
Magnification loops		1	2	2	Adequate
Injectable gutta percha		1	2	2	Adequate
PHANTOM LAB UNIT	Phantom Table fitted with Halogen Operating Light Phantom Head body type neck joint for all the movement, TMJ movement, Modular with Air rotor, Micro motor with contra angle Hps, 3 way syringe, jaw with ivory teeth, preferably soft gingival, dental operator's stool ( <u>not to use extracted or cadaver teeth</u> ).	30	60	60	Adequate

#### Chemical Laboratory

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Plaster Dispenser	One each for plaster and stone plaster	2	2	2	Adequate
Model Trimmer	Carborandum disc	1	1	1	Adequate
	Diamond disc	1	1	1	Adequate
Lathe	Heavy Duty	1	2	2	Adequate
Lab Micromotor	With heavy duty handpiece	2	3	3	Adequate
Ultrasonic cleaner	Minimum capacity 5 litres	1	1	1	Adequate
Spindle Grinder		1	1	1	Adequate
Vibrator		1	2	2	Adequate
Burnout furnace		1	1	1	Adequate
Porcelain furnace		1	1	1	Adequate
Sandblasting Machine		1	1	1	Adequate
Lab Airotor		1	1	1	Adequate
Pindex System		1	1	1	Adequate
Circular saw		1	1	1	Adequate
Vacuum mixer		1	1	1	Adequate
Pneumatic chisel		1	1	1	Adequate
Casting machine	Motor cast / Induction casting preferred	1	1	1	Adequate

Department: Oral & Maxillofacial Surgery

A) Exodontia

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, Air Ventury suction, X-ray viewer, 3 way syringe, Instrument tray Dental Operators stool and height adjustment and suction, Micromotor / Airotor	15	30	30	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	2	2	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	2	Adequate
Needle Burner with Syringe Cutter		4	6	7	Adequate
Extraction forceps sets	Complete set	10	20	20	Adequate
Dental elevators	Complete set	5	10	10	Adequate
Minor Oral Surgery kits		3	6	6	Adequate
Emergency drugs tray		1	1	2	Adequate
Oxygen cylinder with mask		1	1	2	Adequate
X-ray viewers		2	2	4	Adequate
Computer	Minimum Pentium – IV	1	1	1	Adequate

B) Minor Surgery

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, high power evacuation system, Air ventury suction, X-ray viewer, Airrotor, Micromotor with straight and contra-angle Handpiece, 3 way syringe, instrument tray Dental Operators stool and height adjustment and suction.	3	5	5	Adequate

Department: Prosthodontics and Crown & Bridge

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	Electrically operated, Spittoon attachment, Halogen Light with 2 intensity, high power evacuation system, Air Ventury suction, X-ray viewer, Airrotor, Micromotor with straight and contrangle Handpiece, 3 way syringe, Ultrasonic sealer with 3 tips, Light cure unit, instrument tray and suction, Dental Operators stool with height adjustment	17	34	34	Adequate
Semi-adjustable articulator	With face bow	2	2	4	Adequate
Extra oral / intra oral tracer		2	2	4	Adequate
Dewaxing unit		1	2	2	Adequate



Curing unit		1	2	2	Adequate
Dental casting machine		1	1	1	Adequate
Wax burnout furnace		1	1	1	Adequate
Pre heating furnace		1	1	1	Adequate
Surveying unit		1	2	2	Adequate
Heavy duty hand piece	Lab micromotors	3	4	4	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2	Adequate
Needle Burner with Syringe Cutter		1	2	2	Adequate
Plaster dispenser	One each for plaster and stone plaster	2	2	2	Adequate
Model Trimmer with Carborandum disc		1	1	1	Adequate
Model Trimmer with diamond disc		1	2	2	Adequate
Acryliser		2	3	3	Adequate
Lathe		1	2	2	Adequate
Flask press		4	4	4	Adequate
Deflasking unit		4	4	4	Adequate
Dewaxing unit		2	3	3	Adequate
Hydraulic Press		2	3	3	Adequate
Mechanical Press		1	2	2	Adequate
Vacuum mixing machine		1	1	1	Adequate
Lab Micro motor	With heavy duty handpiece	3	4	4	Adequate
Curing pressure pot		1	1	1	Adequate
Porcelain furnace		1	2	2	Adequate
Vibrator		1	2	2	Adequate
Sandblasting unit		2	2	2	Adequate
Ultrasonic cleaner		1	2	2	Adequate
Model Trimmer		2	4	4	Adequate
Hot water sterilizer		1	2	2	Adequate
Geyser	Compound bath	1	2	2	Adequate
H.P. grinder with suction		2	3	3	Adequate
Heavy duty lathe		2	2	2	Adequate
Phantom heads		50	50	50	Adequate
Pre-clinical working tables	Gas connection & Bunsen burner	50	100	100	Adequate

### Ceramic and Cast Partial Laboratory

Name	Specifcation	Quantity		Details on College Website	Adequate / Inadequate
		50 Intake	100 Intake		
Plaster dispenser	One each for plaster and stone plaster	2	2	2	Adequate
Duplicator		1	1	1	Adequate
Pindex System		1	1	1	Adequate
Circular saw		1	1	1	Adequate
Burnout furnace		1	1	1	Adequate
Sandblasting Machine	With two containers	1	1	1	Adequate
Electro polisher		1	1	1	Adequate
Model Trimmer with Carborandum disc		1	1	1	Adequate
Model Trimmer with diamond disc		1	1	1	Adequate
Induction casting machine		1	1	1	Adequate
Programmable porcelain furnace with vacuum pump with instrument kit and material kit		1	1	1	Adequate
Spot welder with soldering attachment of cable		1	1	1	Adequate
Vacuum mixing machine		1	1	1	Adequate
Steam Cleaner		1	1	1	Adequate
Spindle Grinder 24000 rpm with vacuum suction		1	1	1	Adequate
Wax heater		1	1	1	Adequate
Wax carver		1	1	1	Adequate
Curing pressure pot		1	1	1	Adequate
Milling machine		1	1	1	Adequate
Heavy duty lathe with suction		1	1	1	Adequate
Preheating furnace		1	1	1	Adequate
Palatal trimmer		1	1	1	Adequate
Ultrasonic cleaner	5 liters capacity	1	1	1-13 litres	Adequate
Composite curing unit		1	1	1	Adequate
Micro surveyor		1	1	1	Adequate
Pre-clinical Prosthetic Laboratory	Work table preferably complete stainless steel fitted with light, Bunsen burner, air blower, working stool. Adequate number of lab micro motor with attached hand piece.	30 10	60 20	60 20	Adequate
Plaster room for pre-clinical work					Adequate
Plaster dispenser	One each for plaster and stone	2	2	2	Adequate
Vibrator		2	2	2	Adequate
Lathe		2	2	2	Adequate
Model Trimmer		1	1	1	Adequate
Carborandum Disc		1	1	1	Adequate
Diamond disc		1	1	1	Adequate

## EQUIPMENT REQUIREMENTS

As per MDS Course Regulations, 2017

Department: Prosthodontics and Crown & Bridge

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		1 Unit	2 Units		
Electrical Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor and alrotor attachment with handpieces	One Chair and unit per PG student and two chairs with unit for the faculty		22	Adequate
		6	12	14	Adequate
Articulators – semi adjustable/ adjustable with face bow		2	4	4	Adequate
Micromotor – (Lab Type can also be attached (fixed) to wall		2	2	8	Adequate
Ultrasonic scaler		2	2	2	Adequate
Light cures		1	1	1	Adequate
Hot air oven		2	2	2	Adequate
Autoclave		2	2	2	Adequate
Surveyor		1	1	1	Adequate
Refrigerator		1	2	2	Adequate
X-ray viewer		2	3	3	Adequate
Pneumatic, Crown bridge remover		1	2	2	Adequate
Needle destroyer		1	1	1	Adequate
Intra oral camera		1	1	1	Adequate
Digital SLR camera		1	1	1	Adequate
Computer with internet connection with attached printer and scanner		1	1	1	Adequate
LCD projector		1	1	1	Adequate
<b>Clinical Lab for Prosthetics</b>					
Plaster dispenser		2	2	2	Adequate
Model trimmer with carborandum Disc		1	2	2	Adequate
Model trimmer with diamond disc		1	2	2	Adequate
High speed lathe		2	3	3	Adequate
Vibrator		2	4	4	Adequate
Acrylizer		1	2	2	Adequate
Dewaxing unit		1	2	2	Adequate
Hydraulic press		1	1	1	Adequate
Mechanical press		1	1	1	Adequate
Vacuum mixing machine		1	1	1	Adequate
Micro motor lab type		2	3	3	Adequate
Curing pressure pot		1	1	1	Adequate
Pressure molding machine		1	1	1	Adequate
<b>Chrome - Cobalt Lab Equipment</b>					
Duplicator		1	1	1	Adequate
Pindex system		1	1	1	Adequate
Burn-out furnace		1	1	1	Adequate
Welder		1	1	1	Adequate
Sandblaster	Micro and macro	1	1	1	Adequate
Electro – polisher		1	1	1	Adequate
Model trimmer with carborandum disc		1	1	1	Adequate

Model trimmer with diamond disc		1	1	1	Adequate
Model trimmer with double disc (one Carborandum and one diamond disc)		1	1	1	Adequate
Casting machine, motor cast with the safety door closure, gas blow torch with regulator		1	1	1	Adequate
Dewaxing furnace		1	1	1	Adequate
Induction casting machine with vacuum pump, capable of casting titanium chrome cobalt precision metal		1	1	1	Adequate
Spot welder with soldering, attachment of cable		1	1	1	Adequate
Steam cleaner		1	1	1	Adequate
Vacuum mixing machine		1	1	1	Adequate
Spindle grinder 24,000 RPM with vacuum suction		1	1	1	Adequate
Wax heater		2	3	3	Adequate
Wax carvers (Full PKT Set)		2	3	3	Adequate
Milling machine		1	1	1	Adequate
Stereo microscope		1	1	1	Adequate
Magnifying work lamp		1	1	1	Adequate
Heavy duty lathe with suction		1	1	1	Adequate
Preheating furnace		1	1	1	Adequate
Dry model trimmer		1	1	1	Adequate
Die cutting machine		1	2	2	Adequate
Ultrasonic cleaner		1	1	1	Adequate
Composite curing unit		1	1	1	Adequate
<b>Ceramic Lab Equipment</b>					
Fully programmable porcelain furnace with vacuum pump		1	1	1	Adequate
Ceramic kit (instruments)		3	3	3	Adequate
Ceramic materials (kit)		1	1	1	Adequate
Ceramic polishing kit		2	2	2	Adequate
<b>Implant Equipment</b>					
Electrical dental chair and unit		1	1	1	Adequate
Physio dispenser		1	1	1	Adequate
Implant kit	Minimum 2 systems	2	2	2	Adequate
Implants		10	10	90	Adequate
Prosthetic components		10	10	75	Adequate
Unit mount light cure		1	2	2	Adequate
X-ray viewer		1	2	2	Adequate
Needle destroyer		1	2	2	Adequate
Ultrasonic cleaner capacity 3.5 lts		1	1	1	Adequate
Autoclave programmable for all recommended cycles		1	2	2	Adequate
X-ray machine with RVG		1	1	1	Adequate
Refrigerator		1	1	1	Adequate
Surgical kit/prosthetic kit		2	2	2	Adequate
Educating models		1	1	1	Adequate
Implant removing instruments		1	1	1	Adequate

Department: Periodontology

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor attachment with contra angle handpiece,airoter attachment, ultrasonic scaler (Piezo) with detachable autoclavable hand piece	One chair and unit per post-graduate student and Two chairs with unit for the faculty		22	Adequate
		1 Unit	2 Units		
Autoclave (fully automatic) front loading		1	2	2	Adequate
Steel bin		4	6	6	Adequate
Airoter hand pieces		2	2	2	Adequate
UV chamber		1	1	1	Adequate
Formalin chamber		1	1	1	Adequate
W.H.O probe		2	2	2	Adequate
Nabers probe		2	2	2	Adequate
Williams probe		2	2	2	Adequate
UNC-15 probe		4	4	4	Adequate
Gold Man fox probe		1	1	1	Adequate
Pressure sensitive probe		1	1	1	Adequate
Marquis color coded probe		1	1	1	Adequate
Supra gingival scalers	set	2	2	2	Adequate
Sub gingival scaler	set	2	2	2	Adequate
Arkansas sharpening stone		1	1	1	Adequate
<b>Surgical Instruments</b>					
Routine surgical instrument kit (Benquis periosteal elevator, periostome)	set	2	3	3	Adequate
Surgery trolleys		6	6	6	Adequate
X ray viewer		1	2	2	Adequate
Surgical cassette with sterilisation pouches		4	6	6	Adequate
Electro surgery unit		1	1	1	Adequate
<b>Special Surgical Instruments</b>					
Kirkland's knife	set	1	1	1	Adequate
Orban's knife	set	1	1	1	Adequate
Paquette blade handle		1	1	1	Adequate
Krane kaplan pocket marker	set	1	1	1	Adequate
Mc Calls universal currettes	set	1	1	1	Adequate
Gracey's currettes (No.1-18)	set	2	2	2	Adequate
Mini five currettes	set	1	1	1	Adequate
Cumine scalar		1	1	1	Adequate
Mallet		1	1	1	Adequate
Chisel		1	1	1	Adequate
Oschenbein chisel	straight, curved	1	1	1	Adequate
Schluger bone file		1	1	1	Adequate
Bone fixation screw kit		1	1	1	Adequate
Bone scrapper		1	1	1	Adequate
Bone trephines for harvesting autografts	1 set	1	1	1	Adequate

Bone regenerative materials	Bone graft and GTR membranes	5	5	5	Adequate
Local drug delivery systems	At least two different agents	1 each	1	1	Adequate
Root conditioning agent	At least two different agents	2	2	2	Adequate
Micro needle holder		1	1	1	Adequate
Micro scissors		1	1	1	Adequate
Magnifying loop (2.5 – 3.5)		1	2	2	Adequate
Operating microscope	optional	1	1		
3rd generation digital probe	optional	1	1		
Bone expander and bone crester	optional	1	1		
Distraction osteogenesis kit	optional	1	1		
Bone mill	optional	1	1		Adequate
Bone graft / membrane placement spoon		1	1	1	Adequate
Bone condenser		1	1	1	Adequate
Peizo-surgery unit	optional	1	1	1	Adequate
Centrifuge for PRP/PRF preparation	optional	1	1	1	Adequate
Soft tissue laser (8 watt)		1	1	1	Adequate
Osteotome	set optional	1	1		Adequate
<b>Miscellaneous Instruments</b>					
Composite gun with material kit		1	1	1	Adequate
Splinting kit with material		2	3	3	Adequate
Composite finishing kit		1	1	1	Adequate
Glass Ionomer cement		1	1	1	Adequate
Digital camera		1	1	1	Adequate
Intra Oral camera		1	1	1	Adequate
Ultrasonic cleaner		1	1	1	Adequate
Emergency kit		1	1	1	Adequate
Refrigerator		2	2	2	Adequate
X-ray viewer		1	1	1	Adequate
LCD projector		1	1	1	Adequate
Computer with internet connection with attached printer and scanner		1	1	1	Adequate
Implant Equipment					Adequate
Electrical dental chair and unit		1	1	1	Adequate
Physio dispenser		1	1	1	Adequate
Implant kit	At least two different systems	2	2	2	Adequate
Implants		10	10	10	Adequate
Implant maintenance kit (plastic instruments)		1 set	1 set	1 SET	Adequate
Implant guide		1	1	1	Adequate
X-ray viewer		1	2	2	Adequate
Needle destroyer		1	2	2	Adequate
Ultrasonic cleaner capacity 3.5 lts		1	1	1	Adequate
Autoclave programmable for all recommended cycles		1	1	1	Adequate
RVG with x-ray machine		1	1	1	Adequate
Refrigerator		1	1	1	Adequate
Surgical kit		2	2	2	Adequate
Sinus lift kit		1	1	1	Adequate
Educating models		1	1	1	Adequate
Implant removing kit		1	1	1	Adequate

Department: Oral & Maxillofacial Surgery

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and high otorized suction, with micromotor and micro motor attachment	One chair and unit per post-graduate student and Two chairs with unit for the faculty		20	Adequate
		1 Unit	2 Units		
Autoclave	Front loading	2	3	5	Adequate
Fumigators		1	1	1	Adequate
Oscillating saw	With all hand pieces	1	1	1	Adequate
<b>Surgical Instruments</b>					
General surgery kit including tracheotomy kit		2	2	2	Adequate
Minor oral surgery kit		5	10	10	Adequate
Osteotomy kit		1	1	1	Adequate
Cleft surgery kit		1	1	1	Adequate
Bone grafting kit		1	1	1	Adequate
Emergency kit		2	2	2	Adequate
Trauma set including bone		1	1	1	Adequate
Plating kit		2	2	2	Adequate
Implantology kit	Minimum 2 systems	10	10	10	Adequate
With implants		1	1	1	Adequate
Distraction osteogenesis kit		1	1	1	Adequate
Peizo surgical unit		1	1	2	Adequate
Magnifying loops		1	1	-	Adequate
Operating microscope and Microsurgery kit	desirable	1	1	1	Adequate
Dermatomes		2	3	3	Adequate
Needle destroyer		1	1	1	Adequate
Ultrasonic Cleaner capacity 3.5 lts		1	1	1	Adequate
Formalin chamber		1	1	1	Adequate
Pulse oxymeter		1	1	2	Adequate
Ventilator		1	1	1	Adequate
Major operation theatre with all facilities		1	1	1	Adequate
Recovery and Intensive Care Unit with all necessary life support equipments		2 beds	2 beds	2 beds	Adequate
Fibrooptic light		1	1	1	Adequate
Inpatient beds		20	20	20	Adequate
Fiber optic laryngoscope		1	1	1	Adequate
Computer with internet connection with attached printer and scanner		1	1	1	Adequate
LCD projector		1	1	1	Adequate
Refrigerator		1	1	1	Adequate

Department: Conservative Dentistry and Endodontics

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor, alrotor attachment with hand pieces	One chair & unit per post-graduate student and two chairs with unit for the faculty		28	Adequate
		1 Unit	2 Units		
ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment		2	3	3	Adequate
Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems		3	6	6	Adequate
Rubber dam kit		1 per chair	1 per chair	1 per chair	Adequate
Autoclaves for bulk instrument sterilization vacuum (Front loading)		2	3	Centralized	Adequate
Autoclaves for hand piece sterilization		1	1	Centralized	Adequate
Apex locators one for every two chairs		2	4	4	Adequate
Pulp tester		2	4	4	Adequate
Equipments for injectable thermoplasticized gutta percha		1	2	2	Adequate
Operating microscopes 3 step or 5 step magnification		1	1	1	Adequate
Surgical endo kits (Microsurgery)		2	2	2	Adequate
Set of hand instruments (specifications required)		1	2	2	Adequate
Sterilizer trays for autoclave		4	4	4	Adequate
Ultrasonic cleaner capacity 3.5 lts		1	1	1	Adequate
Variable Intensity polymerization equipments - VLC units	Desirable	1	1	1	Adequate
Conventional VLC units one for every two chairs		2	4	4	Adequate
Needle destroyer		2	2	2	Adequate
Magnifying loupes one for students and one for faculty		1	2	2	Adequate
LCD projector		1	1	1	Adequate
Composite kits with different shades and polishing kits		2	4	4	Adequate
Ceramic finishing kits, metal finishing kits	In ceramic labs	2	3	3	Adequate
Amalgam finishing kits		2	3	3	Adequate
RVG with x-ray machine developing kit		1	1	1	Adequate
Chair side micro abrasion		1	1	1	Adequate
Bleaching unit		1	1	1	Adequate
Instrument retrieval kits		1	1	1	Adequate
Computer with Internet connection with attached printer and scanner		1	1	1	Adequate



Refrigerator		1	1	1	Adequate
Equipments for casting procedures					Adequate
Equipments for ceramics including induction casting machines/ burnout preheat furnaces/ wax elimination furnaces		1	1	1	Adequate
Lab micro motor/ metal grinders / sand blasters/ polishing lathes/ duplicator equipment/ vacuum investment equipments		1	1	1	Adequate
Laser (preferably hard tissue)		1	1	1	Adequate
Face bow with semi adjustable articulator		1	2	2	Adequate

Department: Orthodontics and Dentofacial Orthopedics

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
		1 Unit	2 Units		
Dental Chairs and Units	Electrically operated with shadow less lamp, spittoon, 3 way syringe, instrument tray and motorized suction	One chair & unit per PG student and Two chairs with unit for the faculty		20	Adequate
		1 Unit	2 Units		
Vacuum /pressure moulding unit		1	1	1	Adequate
Hydrogen soldering unit		1	1	1	Adequate
Lab micromotor		3	5	5	Adequate
Spot welders		3	5	5	Adequate
Model trimmer (Double disc)		2	3	3	Adequate
Light curing unit		2	2	2	Adequate
High intensity light curing unit		1	2	2	Adequate
Polishing lathes		2	3	3	Adequate
Tracing tables		3	5	5	Adequate
SLR digital camera		1	1	1	Adequate
Scanner with transparency adapter		1	1	1	Adequate
X-ray viewer		3	4	4	Adequate
LCD projector		1	1	1	Adequate
Autoclaves for bulk instrument Sterilization vacuum (Front loading)		1	1	1	Adequate
Needle destroyer		1	1	1	Adequate
Dry heat sterilizer		1	1	1	Adequate
Ultrasonic scaler		1	1	7	Adequate
Sets of Orthodontic pliers		3	3	3	Adequate
Orthodontic impression trays		3	5	5	Adequate
Ultrasonic cleaner capacity 3.5 lts		1	1	1	Adequate
Electropolisher		1	1	1	Adequate
Typodonts with full teeth set		3	3	3	Adequate
Anatomical articulator with face bow attachments		1	1	1	Adequate
Free plane articulators		1	1	1	Adequate
Hinge articulators		4	4	4	Adequate
Computer software for cephalometrics		1	1	1	Adequate
Computer with internet connection with attached printer and scanner		1	1	1	Adequate

Refrigerator		1	1	1	Adequate
--------------	--	---	---	---	----------

Department: Oral & Maxillofacial Pathology and Oral Microbiology

Name	Specification	Quantity		Details on College Website	Adequate /Inadequate
		1Unit	2Units		
Dental Chairs and Units	Electrically operated with shadow less lamp, spittoon, 3way syringe, Instrument Tray and suction	3	6	6+2=8	Adequate
Adequate laboratory glassware's as required for processing of biopsy specimens and staining.	Reasonable quantity should be made available			Available	Adequate
Adequate tissue capsules /tissue embedding cassettes	Reasonable quantity should be made available			Available	Adequate
Paraffin wax bath	Thermostatically controlled	1	1	1+1	Adequate
Leuckhart pieces		10	10	51	Adequate
Block holders		25	25	54	Adequate
Microtome	Manual	1	1	1+1	Adequate
Microtome	semi-automated	1	1	1	Adequate
Tissue floatation water bath	Thermostatically controlled	1	1	1+1	Adequate
Slide warming table		1	1	2	Adequate
Steel slide racks for staining		5	5	6	Adequate
Diamond glass marker		2	2	6	Adequate
Research microscope with phase contrast, darkfield, polarization, image analyzer, photomicrography attachments		1	1	2	Adequate
Multihead microscope	Penta headed	1	1	1	Adequate
Binocular compound microscope		2 for faculty and one per student	4 for faculty and one per student	23 +3	Adequate
Stereomicroscope		1	1	1	Adequate
Aluminum slide trays		5	5	47	Adequate
Wooden/plastic slide boxes		5	5	50	Adequate
Waxblock storing cabinet		5,000 capacity	10,000 capacity	1(10,000) 2(20,000)	Adequate
Slide storing cabinet		5,000 capacity	10,000 capacity	1(10,000) 3(20,000) 2(1,000)	Adequate
Refrigerator		1	1	1	Adequate
Pipettes		5	5	5	Adequate
Surgical kit for biopsy		3	6	6	Adequate
Immunohisto chemistry lab		1	1	1	Adequate
Computer with Internet Connection with attached Printer and scanner		1	1	1(with internet)+1 (without Internet)	Adequate
LCD projector		1	1	2	Adequate
<b>Desirable Equipment</b>					
Cryostat		1	1	-	

Fluorescent microscope		1	1	1	Adequate
Hard tissue microtome		1	1	-	
Tissue storing cabinet(frozen)		1	1	-	
Microwave		1	1	1	Adequate

Department: Public Health Dentistry

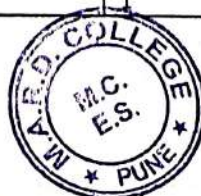
Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
Dental Chairs	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor attachment with contra angle handpiece, airoter attachment, ultrasonic scaler (Piezo) with detachable autoclavable hand piece with min 3 tips.	One chair and unit per post-graduate student and one chair with unit for the faculty			
		1 Unit	2 Units		
Extraction forceps		4 sets	6 sets		
Filling instruments		4 sets	6 sets		
Scaling instruments	Supra gingival scaling	4 sets	6 sets		
Amalgamator		1	1		
Pulp tester		1	1		
Autoclave		1	1		
X-ray viewer		1	1		
Instrument cabinet		1	1		
LCD or DLP multimedia projector		1	1		
Computer with internet connection with attached printer and scanner		1	1		
<b>For peripheral dental care or field programme</b>					
Staff bus		1	1		
Mobile dental clinic fitted with at least 2 dental chairs with complete dental unit with fire extinguisher		1	1		
Ultrasonic scaler,		1	2		
Ultrasonic cleaner capacity 3.5 lts		1	1		
Compressor	One with chair				
Generator		1	1		
Public address system, audio-visual aids		1	1		
Television		1	1		
Digital Versatile Disc Player		1	1		
Instrument cabinet, emergency medicine kits, Blood pressure apparatus		1	1		
Portable oxygen cylinder		1	1		
Portable chair		1	1		
Refrigerator		1	1		

Department: Paediatric and Preventive Dentistry

Name	Specification	Quantity		Details on College Website	Adequate / Inadequate
Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, and motorised suction, micromotor attachment with contra angle miniature handpiece, alrotor attachment with miniature handpiece, dental operator stool (40% dental chairs shall be pedo chairs)	One chair and unit per post-graduate student and Two chairs with unit for the faculty		20	Adequate
		1 Unit	2 Units		
Pedo extraction forceps sets		3	4	4	Adequate
Autoclaves for bulk instrument sterilization vacuum (Front loading)		1	2	2	Adequate
RVG with intra oral x-ray unit		1	1	1	Adequate
Automatic developer		1	1	1	Adequate
Pulp tester		2	3	3	Adequate
Apex locator		1	1	1	Adequate
Rubber dam kit	One set per student	1	1	18	Adequate
Injectable GP condenser		1	1	1	Adequate
Endodontic pressure syringe		1	1	1	Adequate
Glass bead steriliser		2	4	4	Adequate
Spot welder		2	3	3	Adequate
Ultrasonic scalers		2	4	4	Adequate
Needle destroyer		1	1	1	Adequate
Formalin chamber		1	1	1	Adequate
Ultrasonic cleaner capacity 3.5 lts		1	1	1	Adequate
X-ray viewer		2	3	3	Adequate
Amalgamator		1	2	2	Adequate
Plaster dispenser		2	2	2	Adequate
Dental lathe		1	2	2	Adequate
Vibrator		2	3	3	Adequate
Typodonts	One set per student	1	1	22	Adequate
Soldering unit		1	1	1	Adequate
Band pinching beak pliers		2 Sets	2 Sets	2 Sets	Adequate
Proximal contouring pliers		2	3	3	Adequate
Crown crimping pliers		2	3	3	Adequate
Double beak pliers anterior and posterior		2	3	3	Adequate
Lab micro motor		2	3	3	Adequate
Acryliser		1	2	2	Adequate
Magnifying loupes		1	1	1	Adequate
Conscious sedation unit	Desirable	1	1	1	Adequate
Pulse oxymeter		1	1	1	Adequate
Phantom head table with attached Light, Alrotor and micro motor	One set per each P.G. Student	1	1	1	Adequate
Computer with internet connection with attached printer and scanner		1	1	1	Adequate
LCD projector		1	1	1	Adequate
Refrigerator		1	1	1	

Department: Oral Medicine and Radiology

S. No.	NAME	SPECIFICATION	Quantity		Details on college website	Availability
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	One chair and unit per post-graduate student and one chair with unit for the faculty		19	Adequate
2.			1 Unit	2 Units		
3.	RVG with intra oral radiography machine (FDA Approved)	55-70 kvp with digital compatibility	1	1	1	Adequate
4.	Extra oral radiography machine	100 kvp	1	1	1	Adequate
5.	Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer	Digital compatibility	1	1	1	Adequate
6	Intra-oral camera		1	2	2	Adequate
7	Pulp tester		2	4	4	Adequate
8	Autoclave		1	1	4	Adequate
9	Punch biopsy tool		2	3	5	Adequate
10	Biopsy equipment		1	2	2	Adequate
11	Surgical trolley		2	2	4	Adequate
12	Emergency medicines kit		1	1	1	Adequate
13	Extra oral cassettes with intensifying screens (Conventional and rare earth)		4	6	8	Adequate
14	Lead screens		2	2	3	Adequate
15	Lead aprons		2	2	4	Adequate
16	Lead gloves		2	2	3	Adequate
17	Radiographic filters (Conventional and rare earth)		1	1	1	Adequate
18	Dark room with safe light facility		1	1	1	Adequate
19	Automatic radiographic film processors		2	2	2	Adequate
20	Radiographic film storage lead containers		1	1	2	Adequate
21	Thyroid collars		1	1	3	Adequate
22	Digital sphygmomanometer		1	1	2	Adequate
23	Digital blood glucose tester		1	1	1	Adequate
24	Digital camera		1	1	1	Adequate
25	X-ray viewer boxes		2	3	6	Adequate
26	Lacrimal probes		2 sets	2 Sets	2 sets	Adequate
27	Sialography cannula		2 sets	2 Sets	2 sets	Adequate
28	Illuminated mouth mirror and probe		2	2	2	Adequate
29	Computer with internet connection with attached printer and scanner		1	1	2	Adequate
30	LCD projector		1	1	1	Adequate
31	Refrigerator		1	1	1	Adequate



*Prasad*  
PRINCIPAL

M. A. RANGOONWALA COLLEGE OF DENTAL SCIENCES & RESEARCH CENTRE, PUNE