

## EQUIPMENT REQUIREMENTS

As per Revised BDS Course Regulations, 2007

Department: Oral Medicine and Radiology

Name	Specification	Quantity		Available Quantity	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	
Panoramic X-Ray with Cephalometric	Preferably digital	1	1	1	
Intra Oral X-ray Unit	70 KV, 8 mA, high frequency preferably Digital timer	2	3	3	
Pulp testers	Digital			3	
Automatic periapical X-ray Developer		1	1	1	
Automatic Panoramic with Cephalometric X-ray Developer		1	1	1	
X-ray viewer	For Panoramic and Cephalometric films	2	2	2	
Radiovisiography	Digital Intra X-ray system with one Sensor and Software	1	1	1	
General X-ray Unit		1	1	1	
Ortho Pantmograph	Preferably digital	1	1	1	
Automatic Developers / Dark Room		1	2	1	
Lead aprons					
Lead Gloves		2	2	2	
X-ray Hangers		1	1	1	
X-ray Viewers		6	6	6	
Diagnostic Kits	Mouth mirror, dental probe, college tweezers	2	2	2	
Lead Screen		20	40	45	
Biopsy Kit		1	1	3	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	1	1	
Computers	Minimum Pentium – IV	1	2	2 sets	
Intra Oral Camera	With High resolution	1	1	5	
Needle Burner with Syringe Cutter		1	1	1	
		2	2	2	

Department: Oral Pathology and Oral Microbiology

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
		50 Intake	100 Intake		
Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	1	2	2	
Microscopes					
Microtome		20	40	50	
Wax bath		1	1	1	
Water bath		1	1	1	
Knife sharpener		1	1	1	
Hot plate		1	1	1	
Spencer Knife		1	1	1	
		1	1	2	

Department: Public Health Dentistry

Name	Specification	Quantity		Available Quantity	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, airotor, light cure	8	16	16	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	6	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	2	
Needle burner with syringe cutter		2	4	4	
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	
Dental chair with unit	Hydraulically operated with spittoon attachment, halogen light with 2 intensity, air ventury suction, airotor, micromotor, 3 way-scaler and light cure, x-ray viewer, instrument tray, operating stool	2		2	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	1	1	
Intraoral x-ray	Portable, 70 KV, 8 mA	1	1	1	
Glass bead sterilisers		1	1	1	
Compressor	1.25 HP				
Metal Cabinet	With wash basin	1	1	1	
Portable dental chair	Suitcase unit with airotor, micromotor, scaler and compressor 0.25 HP	1	1	1	
Stabiliser	4 KV	2	2	2	
Generator	4 KV	1	1	1	
Water tank	400 ltrs	1	1	1	
Oxygen cylinder		1	1	1	
Public address system		1	1	1	
		1	1	1	

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

Department: Paediatric and Preventive Dentistry

Name	Specification	Quantity		Available Quantity	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	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2	
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	1	2	2	
Needle Burner with syringe cutter		2	3	3	
Amalgamator		1	1	1	
Pulp Tester Digital		1	1	1	
Rubber dam kit for pedo		3	5	5	
Apex locator		1	1	1	
Endo motor	With torque control HPS	1	1	1	
Injectable gutta percha with condensation		1	1	1	
Radiovisiography	Digital intra X-ray system with pedo sensor and software	1	1	1	
Intra Oral Camera	With high resolution	1	1	1	
Scale instruments		5	10	10	
Restorative instruments		5	10	10	
Extraction forceps		5	10	10	
Intra-oral X-ray		1	1	1	
Automatic Developer		1	1	1	
Computer	Minimum Pentium – IV	1	1	1	
<b>PEDO LAB</b>					
Plaster dispenser	One each for plaster and stone plaster	2	2	2	
Model Trimmer	With diamond disc	1	1	1	
Model Trimmer	Double disc one diamond and one carborandam disc	1	1	1	
Welder with soldering attachments		1	1	1	
Vibrator		2	2	2	
Lab micro motor	Heavy duty with Hps	2	3	3	
Dental Lathe		1	1	1	
Model Trimmer		1	1	1	

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

Department: **Orthodontics**

Name	Specification	Quantity		Available Quantity	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	
Unit mount scaler		3	5	5	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	2	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	2	
ORTHO LAB					
Plaster dispenser	One each for plaster and stone plaster	2	2	2	
Vibrator		2	2	4	
Model Trimmer		1	2	2	
Micromotor	Heavy duey	2	4	4	
Lathe		1	2	2	
X-ray viewers		2	2	3	
OPG with cephalostat	If available in radiology its is adequate	1	1	1	
Welders		2	4	4	
Blue Torch		1	1	1	
Base Formers		2	4	4	
Typodont		2	4	6	
Set of pliers		5	10	10	
Welder with soldering attachments		1	1	1	
Hydro solder		1	1	1	
Typhodont articulator	With metal teeth wax rim of Class I, II, III	3	4	6	
Pressure moulding machine		1	1	1	

Department: Periodontology

Name	Specification	Quantity		Available Quantity	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 conrtriangle 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	
Scaling instrument sets		5	10	10	
Surgical instrument sets		3	6	6	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	3	
Ultrasonic scaler	Minimum capacity 13 litres with mesh bucket	1	2	2	
Electro surgical cautery		1	1	1	
Needle burner with syringe cutter		4	6	6	
LASER	Soft tissue laser	1	1	1	
Surgical motor with physio dispenser		1	1	1	

Department: Conservative Dentistry and Endodontics

Name	Specification	Quantity		Available Quantity	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 conrtriangle 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	
Rubber dam kits		4	6	6	
Restorative instruments kits		5	10	10	
R.C.T. instrument kits		5	10	10	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	CENTRAL	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	2	
Needle Burner with Syringe Cutter		3	4	4	
Amalgamator	With auto proportion, auto dispenser	2	3	3	
Rubber dam kits		4	6	6	
Pulp Tester Digital		2	4	4	
Apex locator		1	2	2	
Glass bead		4	6	6	

sterilizers					
Plaster dispenser		2	2	2	
Vibrator		1	2	2	
Ceramic Unit		1	1		
Casting machine		1	1	1	
Intra-oral X-ray Unit	Proper radiation safety	1	1	1	
Automatic Developer		1	1	1	
Radiovisiography	RVG with Computer	1	1	1	
Endo motor	With torque control Hps	1	1	1	
Bleaching Unit		1	1	1	
Magnification loops		1	2	2	
Injectable gutta percha		1	2	2	
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 ivorine teeth, preferably soft gingival, dental operator's stool ( <u>not to use extracted or cadaver teeth</u> ).	30	60	60	

### Chemical Laboratory

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

Department: Oral & Maxillofacial Surgery

A) Exodontia

Name	Specification	Quantity		Available Quantity	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 / Airrotor	15	30	30	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	2	2	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	2	
Needle Burner with Syringe Cutter		4	6	7	
Extraction forceps sets	Complete set	10	20	20	
Dental elevators	Complete set	5	10	10	
Minor Oral Surgery kits		3	6	6	
Emergency drugs tray		1	1	2	
Oxygen cylinder with mask		1	1	2	
X-ray viewers		2	2	4	
Computer	Minimum Pentium – IV	1	1	1	

B) Minor Surgery

Name	Specification	Quantity		Available Quantity	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	

Department: Prosthodontics and Crown & Bridge

Name	Specification	Quantity		Available Quantity	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	
Semi-adjustable articulator	With face bow	2	2	4	
Extra oral / intra oral tracer		2	2	4	
Dewaxing unit		1	2	2	

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



### Ceramic and Cast Partial Laboratory

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
		50 Intake	100 Intake		
Plaster dispenser	One each for plaster and stone plaster	2	2	2	
Duplicator		1	1	1	
Pindex System		1	1	1	
Circular saw		1	1	1	
Burnout furnace		1	1	1	
Sandblasting Machine	With two containers	1	1	1	
Electro polisher		1	1	1	
Model Trimmer with Carborandum disc		1	1	1	
Model Trimmer with diamond disc		1	1	1	
Induction casting machine		1	1	1	
Programmable porcelain furnace with vacuum pump with instrument kit and material kit		1	1	1	
Spot welder with soldering attachment of cable		1	1	1	
Vacuum mixing machine		1	1	1	
Steam Cleaner		1	1	1	
Spindle Grinder 24000 rpm with vacuum suction		1	1	1	
Wax heater		1	1	1	
Wax carver		1	1	1	
Curing pressure pot		1	1	1	
Milling machine		1	1	1	
Heavy duty lathe with suction		1	1	1	
Preheating furnace		1	1	1	
Palatal trimmer		1	1	1	
Ultrasonic cleaner	5 liters capacity	1	1	1-13 litres	
Composite curing unit		1	1	1	
Micro surveyor		1	1	1	
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	
Plaster room for pre-clinical work					
Plaster dispenser	One each for plaster and stone	2	2	2	
Vibrator		2	2	2	
Lathe		2	2	2	
Model Trimmer		1	1	1	
Carborandum Disc		1	1	1	
Diamond disc		1	1	1	

## EQUIPMENT REQUIREMENTS

As per MDS Course Regulations, 2017

Department: Prosthodontics and Crown & Bridge

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

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

Department: Periodontology

Name	Specification	Quantity		Available Quantity	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	
		1 Unit	2 Units		
Autoclave (fully automatic) front loading		1	2	2	
Steel bin		4	6	6	
Airoter hand pieces		2	2	2	
UV chamber		1	1	1	
Formalin chamber		1	1	1	
W.H.O probe		2	2	2	
Nabers probe		2	2	2	
Williams probe		2	2	2	
UNC-15 probe		4	4	4	
Gold Man fox probe		1	1	1	
Pressure sensitive probe		1	1	1	
Marquis color coded probe		1	1	1	
Supra gingival scalers	set	2	2	2	
Sub gingival scaler	set	2	2	2	
Arkansas sharpening stone		1	1	1	
<b>Surgical Instruments</b>					
Routine surgical instrument kit (Benquis periosteal elevator, periotome)	set	2	3	3	
Surgery trolleys		6	6	6	
X ray viewer		1	2	2	
Surgical cassette with sterilisation pouches		4	6	6	
Electro surgery unit		1	1	1	
<b>Special Surgical Instruments</b>					
Kirkland's knife	set	1	1	1	
Orban's knife	set	1	1	1	
Paquette blade handle		1	1	1	
Krane kaplan pocket marker	set	1	1	1	
Mc Calls universal curettes	set	1	1	1	
Gracey's curettes (No.1-18)	set	2	2	2	
Mini five curettes	set	1	1	1	
Cumine scalar		1	1	1	
Mallet		1	1	1	
Chisel		1	1	1	
Oschenbein chisel	straight, curved	1	1	1	
Schluger bone file		1	1	1	
Bone fixation screw kit		1	1	1	
Bone scrapper		1	1	1	

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

Department: Oral & Maxillofacial Surgery

Name	Specification	Quantity		Available Quantity	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	
		1 Unit	2 Units		
Autoclave	Front loading	2	3	5	
Fumigators		1	1	1	
Oscillating saw	With all hand pieces	1	1	1	
<b>Surgical Instruments</b>					
General surgery kit including tracheotomy kit		2	2	2	
Minor oral surgery kit		5	10	10	
Osteotomy kit		1	1	1	
Cleft surgery kit		1	1	1	
Bone grafting kit		1	1	1	
Emergency kit		1	1	1	
Trauma set including bone		2	2	2	
Plating kit		1	1	1	
Implantology kit	Minimum 2	2	2	2	
With implants	systems	10	10	10	
Distraction osteogenesis kit		1	1	1	
Peizo surgical unit		1	1	1	
Magnifying loops		1	1	2	
Operating microscope and Microsurgery kit	desirable	1	1	-	
Dermatomes		1	1	1	
Needle destroyer		2	3	3	
Ultrasonic Cleaner capacity 3.5 lts		1	1	1	
Formalin chamber		1	1	1	
Pulse oxymeter		1	1	2	
Ventilator		1	1	1	
Major operation theatre with all facilities		1	1	1	
Recovery and Intensive Care Unit with all necessary life support equipments		2 beds	2 beds	2 beds	
Fibrooptic light		1	1	1	
Inpatient beds		20	20	20	
Fiber optic laryngoscope		1	1	1	
Computer with internet connection with attached printer and scanner		1	1	1	
LCD projector		1	1	1	
Refrigerator		1	1	1	

Department: Conservative Dentistry and Endodontics

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

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

**Department: Orthodontics and Dentofacial Orthopedics**

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
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	
		1 Unit	2 Units		
Vacuum /pressure moulding unit		1	1	1	
Hydrogen soldering unit		1	1	1	
Lab micromotor		3	5	5	
Spot welders		3	5	5	
Model trimmer (Double disc)		2	3	3	
Light curing unit		2	2	2	
High-intensity light curing unit		1	2	2	
Polishing lathes		2	3	3	
Tracing tables		3	5	5	
SLR digital camera		1	1	1	
Scanner with transparency adapter		1	1	1	
X-ray viewer		3	4	4	
LCD projector		1	1	1	
Autoclaves for bulk instrument Sterilization vacuum (Front loading)		1	1	1	
Needle destroyer		1	1	1	
Dry heat sterilizer		1	1	1	
Ultrasonic scaler		1	1	7	
Sets of Orthodontic pliers		3	3	3	
Orthodontic impression trays		3	5	5	
Ultrasonic cleaner capacity 3.5 lts		1	1	1	
Electropolisher		1	1	1	
Typodonts with full teeth set		3	3	3	
Anatomical articulator with face bow attachments		1	1	1	
Free plane articulators		1	1	1	
Hinge articulators		4	4	4	
Computer software for cephalometrics		1	1	1	
Computer with internet connection with attached printer and scanner		1	1	1	
Refrigerator		1	1	1	



Department: Oral & Maxillofacial Pathology and Oral Microbiology

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

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

Department: Public Health Dentistry

Name	Specification	Quantity		Available Quantity	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		Available Quantity	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, airtor 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	
		1 Unit	2 Units		
Pedo extraction forceps sets		3	4	4	
Autoclaves for bulk instrument sterilization vacuum (Front loading)		1	2	2	
RVG with intra oral x-ray unit		1	1	1	
Automatic developer		1	1	1	
Pulp tester		2	3	3	
Apex locator		1	1	1	
Rubber dam kit	One set per student	1	1	18	
Injectable GP condenser		1	1	1	
Endodontic pressure syringe		1	1	1	
Glass bead steriliser		2	4	4	
Spot welder		2	3	3	
Ultrasonic scalers		2	4	4	
Needle destroyer		1	1	1	
Formalin chamber		1	1	1	
Ultrasonic cleaner capacity 3.5 lts		1	1	1	
X-ray viewer		2	3	3	
Amalgamator		1	2	2	
Plaster dispenser		2	2	2	
Dental lathe		1	2	2	
Vibrator		2	3	3	
Typodonts	One set per student	1	1	22	
Soldering unit		1	1	1	
Band pinching beak pliers		2 Sets	2 Sets	2 sets	
Proximal contouring pliers		2	3	3	
Crown crimping pliers		2	3	3	
Double beak pliers anterior and posterior		2	3	3	
Lab micro motor		2	3	3	
Acryliser		1	2	2	
Magnifying loupes		1	1	1	
Conscious sedation unit	Desirable	1	1	1	
Pulse oxymeter		1	1	1	
Phantom head table with attached Light, Airtor and micro motor	One set per each P.G. Student	1	1	1	
Computer with internet connection with attached printer and scanner		1	1	1	
LCD projector		1	1	1	
Refrigerator		1	1	1	

Department: Oral Medicine and Radiology

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
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	
		1 Unit	2 Units		
RVG with intra oral radiography machine (FDA Approved)	55-70 Kvp with digital compatibility	1	1	1	
Extra oral radiography machine	100 kvp	1	1	1	
Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer	Digital compatibility	1	1	1	
Intra-oral camera		1	2	2	
Pulp tester		2	4	4	
Autoclave		1	1	4	
Punch biopsy tool		2	3	5	
Biopsy equipment		1	2	2	
Surgical trolley		2	2	4	
Emergency medicines kit		1	1	1	
Extra oral cassettes with intensifying screens (Conventional and rare earth)		4	6	8	
Lead screens		2	2	3	
Lead aprons		2	2	4	
Lead gloves		2	2	3	
Radiographic filters (Conventional and rare earth)		1	1	1	
Dark room with safe light facility		1	1	1	
Automatic radiographic film processors		2	2	2	
Radiographic film storage lead containers		1	1	2	
Thyroid collars		1	1	3	
Digital sphygmomanometer		1	1	2	
Digital blood glucose tester		1	1	1	
Digital camera		1	1	1	
X-ray viewer boxes		2	3	6	
Lacrimal probes		2 sets	2 Sets	2 sets	
Sialography cannula		2 sets	2 Sets	2 sets	
Illuminated mouth mirror and probe		2	2	2	
Computer with internet connection with attached printer and scanner		1	1	2	
LCD projector		1	1	1	
Refrigerator		1	1	1	

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



*(Signature)*

Dean / Principal Stamp & Signature