

Annexure- V

**Department-wise
Equipment /
Instruments / Charts /
Models / Furniture**

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	5	
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	2	
Processors	Digital			2	
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 Rooms		1	2	1	
Lead aprons		2	2	2	
Lead Gloves		1	1	1	
X-ray Hangers		6	6	6	
X-ray Viewers		2	2	2	
Diagnostic Kits	Mouth mirror, dental probe, college tweezers	20	40	20	
Lead Screen		1	1	1	
Biopsy Kit		1	1	1	
Autoclave	Having wet and dry cycle, which can achieve 135 ^o C with minimum capacity of 20 liters	1	2	1	
Computers	Minimum Pentium – IV	1	1	1	
Intra Oral Camera	With High resolution	1	1	1	
Needle Burner with Syringe Cutter		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		20	40	67	
Microtome		1	1	1	
Wax bath		1	1	1	
Water bath		1	1	1	
Knife sharpener		1	1	1	
Hot plate		1	1	1	
Spencer Knife		1	1	-	

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, airtor, light cure	8	16	8	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	1	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	1	
Needle burner with syringe cutter		2	4	2	
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, airtor, 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	1	1	1	
Metal Cabinet	With wash basin	1	1	1	
Portable dental chair	Suitcase unit with airtor, micromotor, scaler and compressor 0.25 HP	2	2	4	
Stabiliser	4 KV	1	1	1	
Generator	4 KV	1	1	1	
Water tank	400 ltrs	1	1	1	
Oxygen cylinder		1	1	1	
Public address system		1	1	1	

TV and video cassette player	1	1	1	
Demonstration models	1	1	20	

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	19	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20-liters	1	2	1	
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	1	2	1	
Needle Burner with syringe cutter		2	3	2	
Amalgamator		1	1	1	
Pulp Tester Digital		1	1	1	
Rubber dam kit for pedo		3	5	3	
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	5	
Restorative instruments		5	10	5	
Extraction forceps		5	10	5	
Intra-oral X-ray		1	1	1	
Automatic Developer		1	1	1	
Computer	Minimum Pentium – IV	1	1	1	
PEDO LAB					
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	2	
Dental Lathe		1	1	1	
Model Trimmer		1	1	1	

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

Department: **Orthodontics**

Name	Specificati on	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	4	
Ur mount scaler		3	5	3	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	1	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2	1	
ORTHO LAB					
Plaster dispenser	One each for plaster and stone plaster	2	2	2	
Vibrator		2	2	2	
Model Trimmer		1	2	1	
Micromotor	Heavy duey	2	4	2	
Lathe		1	2	1	
X-ray viewers		2	2	2	
OPG with cephalostat	If available in radiology its is adequate	1	1		
Welders		2	4	2	
Bl Torch		1	1	1	
Base Formers		2	4	2	
Typodont		2	4	2	
Set of pliers		5	10	5	
Welder with soldering attachments		1	1	1	
Hydro solder		1	1	1	
Typodont articulator	With metal teeth wax rim of Class I, II, III	3	4	3	
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 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	17	
Scaling instrument sets		5	10	5	
Surgical instrument sets		3	6	3	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	4	
Ultrasonic scaler	Minimum capacity 13 litres with mesh bucket	1	2	1	
Electro surgical caury		1	1	1	
Needle burner with syringe cutter		4	6	4	
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 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	12	
Rubber dam kits		4	6	4	
Restorative instruments kits		5	10	10	
R.C.T. instrument kits		5	10	5	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3	2	
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	1	
Needle Burner with Syringe Cutter		3	4	3	
Amalgamator	With auto proportion, auto dispenser	2	3	2	
Rubber dam kits		4	6	4	
Pulp Tester Digital		2	4	2	
Apex locator		1	2	1	
Glass bead		4	6	4	

sterilizers					
Plaster dispenser		2	2	2	
Vibrator		1	2	1	
Ceramic Unit		1	1	Shared with prostho	
Casting machine		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	1	
Injectable gutta percha		1	2	1	
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	56	

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	1	
Lab Micromotor	With heavy duty handpiece	2	3	1	
Ultrasonic cleaner	Minimum capacity 5 litres	1	1	1	
Spindle Grinder		1	1	1	
Vibrator		1	2	1	
Burnout furnace		1	1	1	
Porcelain furnace		1	1	-	
Sandblasting Machine		1	1	1	
Lab Airotor		1	1	1	
Pindex System		1	1	1	
Circular saw		1	1	1	
Vacuum mixer		1	1	1	
Pnematic chisel		1	1	1	
Casting machine	Motor cast / induction casting preferred	1	1	Shared with prostho	

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 / Airotor	15	30	10	
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	1	
Needle Burner with Syringe Cutter		4	6	5	
Extraction forceps sets	Complete set	10	20	11	
Dental elevators	Complete set	5	10	6	
Oral Surgery kits		3	6	4	
Emergency drugs tray		1	1	1	
Oxygen cylinder with mask		1	1	2	
X-ray viewers		2	2	2	
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	4	

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	6	
Semi-adjustable articulator	With face bow	2	2	4	
Extra oral / intra oral tracer		2	2		
Dewaxing unit		1	2	2	

Curing unit		1	2	3	
Dental casting machine		1	1	1	
Wax burnout furnace		1	1	2	
Pre heating furnace		1	1	1	
Surveying unit		1	2	3	
Heavy duty hand piece	Lab micromotors	3	4	5	
Autoclave	Having wet and dry cycle, which can achieve 135 ^o C with minimum capacity of 20 liters	1	2	3	
Needle Burner with Syringe Cutter		1	2	2	
Plaster dispenser	One each for plaster and stone plaster	2	2	9	
Model Trimmer with Carborandum di		1	1	1	
Model Trimmer with diamond disc		1	2	5	
Acryliser		2	3	3	
Lathe		1	2	8	
Flask press		4	4	5	
Deflasking unit		4	4	4	
Dewaxing unit		2	3	2	
Hydraulic Press		2	3	2	
Mechanical Press		1	2	3	
Vacuum mixing machine		1	1	2	
Lab Micro motor	With heavy duty handpiece	3	4	5	
Curing pressure pot		1	1	1	
Porcelain furnace		1	2	1	
Vibrator		1	2	3	
Sandblasting unit		2	2	2	
Ultrasonic cleaner		1	2	1	
Model Trimmer		2	4	6	
Hot water sterilizer		1	2	8	
Geyser	Compound bath	1	2	1	
H.P. grinder with suction		2	3	2	
Heavy duty lathe		2	2	2	
Phantom heads		50	50	13	
Pre-clinical working tables	Gas connection & Bunsen burner	50	100	16	

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 hole		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	
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	30 10	
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	