

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	15	
Panoramic X-Ray with Cephalometric	Preferably digital	1	1	2	
Intra Oral X-ray Unit	70 KV, 8 mA, high frequency preferably Digital timer	2	3	5	
Pulp testers	Digital			2	
Automatic periapical X-ray Developer		1	1	2	
Automatic Panoramic with Cephalometric X-ray Developer		1	1	1	
X-ray viewer	For Panoramic and Cephalometric films	2	2	7	
Radiovisiography	Digital Intra X-ray system with one Sensor and Software	1	1	2	
General X-ray Unit		1	1	1	
Ortho Pantmograph	Preferably digital	1	1	2	
Automatic Developers / Dark Room		1	2	2	
Lead aprons		2	2	5	
Lead Gloves		1	1	1	
X-ray Hangers		6	6	38	
X-ray Viewers		2	2	14	
Diagnostic Kits	Mouth mirror, dental probe, college tweezers	20	40	150	
Lead Screen		1	1	4	
Biopsy Kit		1	1	2	
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2	3	
Computers	Minimum Pentium – IV	1	1	7	
Intra Oral Camera	With High resolution	1	1	1	
Needle Burner with Syringe Cutter		2	2	2	

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As per MDS Course Regulations, 2017

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	12	
		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	2	
Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer	Digital compatibility	1	1	2	
Intra-oral camera		1	2	1	
Pulp tester		2	4	2	
Autoclave		1	1	3	
Punch biopsy tool		2	3	2	
Biopsy equipment		1	2	2	
Surgical trolley		2	2	2	
Emergency medicines kit		1	1	1	
Extra oral cassettes with intensifying screens (Conventional and rare earth)		4	6	6	
Lead screens		2	2	4	
Lead aprons		2	2	6	
Lead gloves		2	2	1	
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	5	
Thyroid collars		1	1	4	
Digital sphygmomanometer		1	1	1	
Digital blood glucose tester		1	1	1	
Digital camera		1	1	1	
X-ray viewer boxes		2	3	7	
Lacrimal probes		2 sets	2 Sets	2	
Sialography cannula		2 sets	2 Sets	2	
Illuminated mouth mirror and probe		2	2	2	
Computer with internet connection with attached printer and scanner		1	1	5	
LCD projector		1	1	1	
Refrigerator		1	1	1	

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B. M. A. L.
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EQUIPMENT REQUIREMENTS

As per Revised BDS Course Regulations, 2007

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	30	Adequate
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	2	OPD - 03 OT - 02	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2	04	Adequate
Needle Burner with Syringe Cutter		4	6	06	Adequate
Extraction forceps Sets	Complete set	10	20	20 sets	Adequate
Dental elevators	Complete set	5	10	20 sets	Adequate
Minor Oral Surgery kits	Oral Surgery kits	3	6	20	Adequate
Emergency drugs Tray		1	1	01	Adequate
Oxygen cylinder with mask	Oxygen cylinder with mask	1	1	Portable - 04 Central O2 + suction in Exo, MFD. Ward	Adequate
X-ray viewers		2	2	20	Adequate
Computer	Minimum Pentium - IV	1	1	01	Adequate

A) 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	05	Adequate

As per MDS Course Regulations, 2017

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 प्राध्यापक व विभागप्रमुख
 मुंबई शस्त्रक्रिया विभाग
 नगर हॉस्पिटल दंत महाविद्यालय
 पुणे-४११००८
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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		11	Adequate
		1 Unit	2 Units		
Autoclave	Front loading	2	3	03	Adequate
Fumigators		1	1	03	Adequate
Oscillating saw	With all hand pieces	1	1	01	Adequate
Surgical Instruments					
General surgery kit including tracheotomy kit		2	2	04	Adequate
Minor oral surgery kit		5	10	10	Adequate
Osteotomy kit		1	1	02	Adequate
Cleft surgery kit		1	1	01	Adequate
Bone grafting kit		1	1	01	Adequate
Emergency kit		1	1	01	Adequate
Trauma set including bone		2	2	02	Adequate
Plating kit		1	1	02	Adequate
Implantology kit	Minimum 2 systems	2	2	02	Adequate
With implants		10	10	10	Adequate
Distraction osteogenesis kit		1	1	1kit+ 20 distractors	Adequate
Piezo surgical unit		1	1	00	In process
Magnifying loupes		1	1	01	Adequate
Operating microscope and Microsurgery kit	desirable	1	1	-	-
Dermatomes		1	1	01	Adequate
Needle destroyer		2	3	04	Adequate
Ultrasonic Cleaner capacity 3.5 lts		1	1	01	Adequate
Formalin chamber		1	1	05	Adequate
Pulse oxymeter		1	1	1	Adequate
Ventilator		1	1	03	Adequate
Major operation theatre with all facilities					
Recovery and Intensive Care Unit with all necessary life support equipments		2 beds	2 beds	2 beds in NHDC 2 beds in TNMC	Adequate
Fibre optic light		1	1	01	Adequate
Inpatient beds		20	20	25	Adequate
Fiber optic laryngoscope		1	1	01	Adequate
Computer with internet connection with attached printer and scanner		1	1	01	Adequate
LCD projector		1	1	01	Adequate
Refrigerator		1	1	03	Adequate

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மருத்துவ அமைச்சு
கொழும்பு
கொழும்பு மருத்துவ கல்லூரி

DEPARTMENT OF PERIODONTICS

Department: Periodontology (UG)

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 conrangle 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	26	
Scaling instrument sets		5	10	10	
Surgical instrument sets		3	6	06	
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(3L+5L)	
Electro surgical cautery		1	1	2	
Needle burner With syringe cutter		4	6	6	
LASER	Soft tissue laser	1	1	1	
Surgical motor With physio dispenser		1	1	1	

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DEPARTMENT OF PERIODONTICS

Department: Periodontology (PG)

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
		1 Unit	2 Units		
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		11	
		1 Unit	2 Units		
Autoclave (fully automatic) front loading		1	2	2	
Steel bin		4	6	4	
Airoter hand pieces		2	2	27	
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	9	
Gold Man fox probe		1	1	2	
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	
Surgical Instruments					
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	9	
Electro surgery unit		1	1	1	
Special Surgical Instruments					
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	

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DEPARTMENT OF PERIODONTICS

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	0	
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	0	
3rd generation digital probe	optional	1	1	0	
Bone expander and bone crester	optional	1	1	0	
Distraction osteogenesis kit	optional	1	1	0	
Bone mill	optional	1	1	0	
Bone graft / membrane placement spoon		1	1	1	
Bone condenser		1	1	1	
Peizo-surgery unit	optional	1	1	0	
Centrifuge for PRP/PRF preparation	optional	1	1	1	
Soft tissue laser (8 watt)		1	1	1	
Osteotome	set optional	1	1	1	
Miscellaneous Instruments					
Composite gun with material kit		1	1	13	
Splinting kit with material		2	3	2	
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	1	
LCD projector		1	1	1	
Computer with internet connection with attached printer and scanner		1	1	1	
Implant Equipment					
Electrical dental chair and unit		1	1	1	
Physio dispenser		1	1	1	
Implant kit	At least two different systems	2	2	1	
Implants		10	10	10	
Implant maintenance kit (plastic instruments)		1 set	1 set	1	

DEPARTMENT OF PERIODONTICS

Implant guide		1	1	0	
X-ray viewer		1	2	1	
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	1	
Sinus lift kit		1	1	1 in process	
Educating models		1	1	1	
Implant removing kit		1	1	1 in process	

* The number of equipments shown in this proforma represents the MINIMUM requirement for Implant Clinic shared by the 3 department's viz. Oral & Maxillofacial Surgery and Periodontics and Prosthodontics

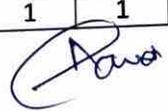
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TV and video cassette player	1	1		
Demonstration models	1	1		

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 conrtriangle 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	15	
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	2	Adequate
Rubber dam kit for pedo		3	5	18	Adequate
Apex locator		1	1	2	Adequate
Endo motor	With torque control HPs	1	1	3	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 sets	Adequate
Restorative instruments		5	10	10 sets	Adequate
Extraction forceps		5	10	10 sets	Adequate
Intra-oral X-ray		1	1	2	Adequate
Automatic Developer		1	1	1	Adequate
Computer	Minimum Pentium - IV	1	1	3	Adequate
PEDO LAB					
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	4	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


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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

DR. ADESH KAKADE
Professor And Head

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

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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		11	Adequate
		1 Unit	2 Units		
		3	4	10 sets	Adequate
Pedo extraction forceps sets		1	2	2	Adequate
Autoclaves for bulk instrument sterilization vacuum (Front loading)		1	1	1	Adequate
RVG with intra oral x-ray unit		1	1	1	Adequate
Automatic developer		2	3	2	Adequate
Pulp tester		1	1	2	Adequate
Apex locator	One set per student	1	1	18	Adequate
Rubber dam kit		1	1	1	Adequate
Injectable GP condenser		1	1	1	Adequate
Endodontic pressure syringe		2	4	2	Adequate
Glass bead steriliser		2	3	4	Adequate
Spot welder		2	4	26	Adequate
Ultrasonic scalars		1	1	7	Adequate
Needle destroyer		1	1	1	Adequate
Formalin chamber		1	1	2	Adequate
Ultrasonic cleaner capacity 3.5 lts		2	3	27	Adequate
X-ray viewer		1	2	1	Adequate
Amalgamator		2	2	2	Adequate
Plaster dispenser		1	2	1	Adequate
Dental lathe		2	3	2	Adequate
Vibrator	One set per student	1	1	3 primary 3 permanent	Adequate
Typodonts		1	1	1	Adequate
Soldering unit		2 Sets	2 Sets	5 sets	Adequate
Band pinching beak pliers		2	3	4	Adequate
Proximal contouring pliers		2	3	3	Adequate
Crown crimping pliers		2	3	8	Adequate
Double beak pliers anterior and posterior		2	3	3	Adequate
Lab micro motor		1	2	1	Adequate
Acryliser		1	1	2	Adequate
Magnifying loupes	Desirable	1	1	1	Adequate
Conscious sedation unit		1	1	1	Adequate
Pulse oxymeter		1	1	one set per PG	Adequate
Phantom head table with attached Light, Airtor 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	4	Adequate
Refrigerator		1	1	4	Adequate

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Department of Conservative
Dentistry

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		
Scaling instrument sets		5	10		
Surgical instrument sets		3	6		
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	3		
Ultrasonic scaler	Minimum capacity 13 litres with mesh bucket	1	2		
Electro surgical cautery		1	1		
Needle burner with syringe cutter		4	6		
LASER	Soft tissue laser	1	1		
Surgical motor with physio dispenser		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	27	
Rubber dam kits		4	6	13	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	3	Adequate
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket	1	2		
Needle Burner with Syringe Cutter		3	4	4	Adequate
Amalgamator	With auto proportion, auto dispenser	2	3	2	In process
Rubber dam kits		4	6	13	Adequate
Pulp Tester Digital		2	4	2	In process
Apex locator		1	2	4	Adequate
Glass bead		4	6	6	Adequate

sterilizers					
Plaster dispenser		2	2		In process
Vibrator		1	2	1	In process
Ceramic Unit		1	1	1	Adequate
Casting machine		1	1	1	Adequate
Intra-oral X-ray Unit	Proper radiation safety	1	1	3	Adequate
Automatic Developer		1	1	1	Adequate
Radiovisiography	RVG with Computer	1	1	3	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	1	In process
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	110	Adequate

Chemical Laboratory

Name	Specification	Quantity		Available Quantity	Adequate / Inadequate
		50 Intake	100 Intake		
Plaster Dispenser	One each for plaster and stone plaster	2	2	0	In process
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	0	In process
Vibrator		1	2	0	In Process
Burnout furnace		1	1	1	Adequate
Porcelain furnace		1	1	0	In process
Sandblasting Machine		1	1	1	Adequate
Lab Airtor		1	1	0	In process
Pindex System		1	1	1	Adequate
Circular saw		1	1	0	In process
Vacuum mixer		1	1	0	In process
Pneumatic chisel		1	1	0	In process
Casting machine	Motor cast / induction casting preferred	1	1	1	Adequate

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Dr. K.S. BANG
Professor & Head
Department of Conservative Dentistry
Nair Hospital Dental College
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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		14	Adequate
		1 Unit	2 Units		
ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment		2	3	2	Adequate
Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems		3	6	3	Adequate
Rubber dam kit		1 per chair	1 per chair	13	Adequate
Autoclaves for bulk instrument sterilization vacuum (Front loading)		2	3	2	Adequate
Autoclaves for hand piece sterilization		1	1	1	Adequate
Apex locators one for every two chairs		2	4	2	Adequate
Pulp tester		2	4	2	Adequate
Equipments for injectable thermoplasticized gutta percha		1	2	1	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	1	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		
Conventional VLC units one for every two chairs		2	4	2	Adequate
Needle destroyer		2	2	2	Adequate
Magnifying loupes one for students and one for faculty		1	2	1	Adequate
LCD projector		1	1	1	Adequate
Composite kits with different shades and polishing kits		2	4	2	Adequate
Ceramic finishing kits, metal finishing kits	In ceramic labs	2	3	2	Adequate
Amalgam finishing kits		2	3	2	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					
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)	Soft tissue	1	1	1	Adequate
Face bow with semi adjustable articulator		1	2	1	Adequate

Department: Orthodontics and Dentofacial Orthopedics

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

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Department Of Orthodontics

Annexure V- BDS

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	19	
Unit mount scaler		3	5	19	
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	2	
Model Trimmer		1	2	2	
Micromotor	Heavy duty	2	4	4	
Lathe		1	2	2	
X-ray viewers		2	2	2	
OPG with cephalostat	If available in radiology its is adequate	1	1	In radiology	
Welders		2	4	4	
Blue Torch		1	1	1	
Base Formers		2	4	4	
Typodont		2	4	4	
Set of pliers		5	10	33	
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	4	
Pressure moulding machine		1	1	1	

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Department Of Orthodontics
List Of Equipments as per LIC 2026

Annexure V- MDS

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 motorized suction	One chair & unit per PG student and Two chairs with unit for the faculty		11	
		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	4	
Model trimmer (Double disc)		2	3	2	
Light curing unit		2	2	11	
High intensity light curing unit		1	2	2	
Polishing lathes		2	3	2	
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	2	
Autoclaves for bulk instrument Sterilization vacuum (Front loading)		1	1	1	
Needle destroyer		1	1	2	
Dry heat sterilizer		1	1	1	
Ultrasonic scaler		1	1	11	
Sets of Orthodontic pliers		3	3	10	
Orthodontic impression trays		3	5	148	
Ultrasonic cleaner capacity 3.5 lts		1	1	1	
Electropolisher		1	1	1	
Typodonts with full teeth set		3	3	5	
Anatomical articulator with face bow attachments		1	1	1	
Free plane articulators		1	1	5	
Hinge articulators		4	4	11	
Computer software for cephalometrics		1	1	1	
Computer with internet connection with attached printer and scanner		1	1	1	
Refrigerator		1	1	3	

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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	31	
Semi-adjustable articulator	With face bow	2	2	2	
Extra oral / intra oral tracer		2	2	2	
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 Carborundum Disc		1	1	1	
Model Trimmer with diamond disc		1	2	0	
Acryliser		2	3	3	
Lathe		1	2	2	
Flask press		4	4	4	
Deflasking unit		4	4	4	
Dewaxing unit		2	3	1	
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	

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Sandblasting unit		2	2	2	
Ultrasonic cleaner		1	2	2	
Model Trimmer		2	4	4	
Hot water sterilizer		1	2	2	
Geysers	Compound bath	1	2	2	
H.P. grinder with suction		2	3	2	
Heavy duty lathe		2	2	2	
Phantom heads		50	50	55	
Pre-clinical working tables	Gas connection & Bunsen burner	50	100	100	

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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 Carborundum 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	
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 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	0	

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**AS PER MDS COURSE REGULATIONS, 2017
DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE**

Name	Specification	Quantity		Available Quantity	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 airtor attachment with handpieces	One Chair and unit per PG student and two chairs with unit for the faculty		11	
Articulators – semi adjustable/ adjustable with face bow		6	12	6	
Micromotor – (Lab Type can also be attached (fixed) to wall		2	4	2	
Ultrasonic scaler		2	2	2	
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	1	
Pneumatic, Crown bridge remover		2	3	1	
Needle destroyer		1	2	1	
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	
Clinical Lab for Prosthetics					
Plaster dispenser		2	2	2	
Model trimmer with carborandum Disc		1	2	1	
Model trimmer with diamond disc		1	2	0	
High speed lathe		2	3	2	
Vibrator		2	4	2	
Acrylizer		1	2	1	
Dewaxing unit		1	2	1	
Hydraulic press		1	1	1	
Mechanical press		1	1	1	
Vacuum mixing machine		1	1	1	
Micro motor lab type		2	3	2	
Curing pressure pot		1	1	1	
Pressure molding machine		1	1	1	
CHROME – COBALT LAB EQUIPMENT					
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	

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Model trimmer with diamond disc		1	1	0	
Model trimmer with double disc (one Carborandum and one diamond disc)		1	1	0	
Casting machine, motor cast with the safety door closure, gas blow torch with regulator		1	1	0	
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 ROM with vacuum suction		1	1	1	
Wax heater		2	3	2	
Wax carvers (Full PKT Set)		2	3	2	
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	0	
Die cutting machine		1	2	1	
Ultrasonic cleaner		1	1	1	
Composite curing unit		1	1	1	
CERAMIC LAB EQUIPMENT					
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	
IMPLANT EQUIPMENT					
Electrical dental chair and unit		1	1	1	
Physio dispenser		1	1	1	
Implant kit	Minimum 2 systems	2	2	2	
Implants		10	10	10	
Prosthetic components		10	10	10	
Unit mount light cure		1	2	1	
X-ray viewer		1	2	1	
Needle destroyer		1	2	1	
Ultrasonic cleaner capacity 3.5 lts		1	1	1	
Autoclave programmable for all recommended cycles		1	2	1	
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	0	


Dr. Vishwas Kharsan

Professor and Head

Dept. of Prosthodontics and Crown & Bridge
Nair Hospital Dental College, Mumbai - 400008.

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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	02	
Microscopes		20	40	60	
Microtome		1	1	01	
Waxbath		1	1	01	
Waterbath		1	1	01	
Knifesharpener		1	1	01	
Hot plate		1	1	01	
SpencerKnife		1	1	01	

Rajiv S. Desai
Dr. Rajiv S. Desai
 Professor & Head

Department: Public Health Dentistry

Dept. of Oral Pathology & Microbiology
 Nair Hospital Dental College
 Mumbai - 400008

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		
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	2		
Ultrasonic cleaner	Minimum capacity 13 litres with mesh bucket with digital timer	1	2		
Needle burner with syringe cutter		2	4		
MOBILE CLINIC					
Mobiledental van	Mobiledental van with two dental chairs with all the attachments and adequate sitting space for 15 to 20 people				
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			
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	1		
Intraoral x-ray	Portable, 70KV, 8mA	1	1		
Glass bead sterilisers		1	1		
Compressor	1.25HP	1	1		
Metal Cabinet	With wash basin	1	1		
Portable dental chair	Suitcase unit with airtor, micromotor, scaler and compressor 0.25 HP	2	2		
Stabiliser	4KV	1	1		
Generator	4 KV	1	1		
Water tank	400ltrs	1	1		
Oxygen cylinder		1	1		
Public address system		1	1		

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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 shadowless lamp, spittoon, 3 way syringe, instrument Tray and suction	3	6	03	
Adequate laboratory glassware's as required for processing of biopsy Specimens and staining.	Reasonable quantity should be made available			Reasonable quantity available	
Adequate tissue capsules /tissue embedding cassettes	Reasonable quantity Should be made available			Reasonable quantity available	
Paraffin wax bath	Thermostatically controlled	1	1	1	
Leuckhart pieces		10	10	10	
Block holders		25	25	50	
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	1	
Steel slide racks for staining		5	5	10	
Diamond glass marker		2	2	5	
Research microscope with phase contrast, darkfield, polarization ,image analyzer, photomicrography attachments		1	1	1	
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	45	
Stereomicroscope		1	1	1	
Aluminum slide trays		5	5	10	
Wooden/plastic slide boxes		5	5	20	
Wax block storing cabinet		5,000 capacity	10,000 capacity	45,000 capacity	
Slide storing cabinet		5,000 capacity	10,000 capacity	45,000 capacity	
Refrigerator		1	1	2	
Pipettes		5	5	20	
Surgical kit for biopsy		3	6	10	
Immunohistochemistry lab		1	1	1	
Computer with Internet Connection with attached Printer and scanner		1	1	3	
LCD projector		1	1	1	
Desirable Equipment					
Cryostat		1	1	0	
Fluorescent microscope		1	1	0	
Hard tissue microtome		1	1	0	
Tissue storing cabinet(frozen)		1	1	0	
Microwave		1	1	1	

EQUIPMENT REQUIREMENTS

As per Revised BDS Course Regulations, 2007

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, airrotor, 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	01	Under process
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	1	2	02	Adequate
Needle burner With syringe cutter		2	4	04	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			Available	
Dental chair with unit	Hydraulically operated with spittoon attachment, halogen light with 2 intensity, air ventury suction, airrotor, micromotor, 3 way-scaler and light cure, x- ray viewer, instrument tray, operating stool	2	2	01	New MDV with two dental chairs under process.
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	1	1	01	Adequate
Intraoral x-ray	Portable, 70 KV, 8 mA	1	1	01	Adequate
Glass bead sterilisers		1	1	01	Adequate
Compressor	1.25 HP	1	1	01	Adequate
Metal Cabinet	With wash basin	1	1	04	Adequate

Portable dental Chair	Suitcase unit with airtor, micromotor, scaler and compressor 0.25 HP	2	2	02	Adequate
Stabiliser	4 KV	1	1	01	Adequate
Generator	4 KV	1	1	01	Adequate
Water tank	400 ltrs	1	1	01	Adequate
Oxygen cylinder		1	1	01	Adequate
Public address system		1	1	01	Adequate
TV and video cassette player		1	1	01	Adequate
Demonstration models		1	1	40	Adequate

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ANNEXURE - VI