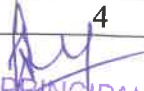


4.2.1 FACILITIES FOR PATIENT CARE, TEACHING, LEARNING AND RESEARCH  
AS STIPULATED BY THE RESPECTIVE REGULATORY BODIES


MDS EQUIPMENT REQUIREMENT AND AVAILABILITY

DEPARTMENT: CONSERVATIVE DENTISTRY AND ENDODONTICS

S.No.	Name	Specification	Stipulated required Quantity		Availability
			Unit 1	Unit 2	
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor, airtor attachment with hand pieces (Fibre optic) and scaller	One chair per post-graduate student and two for faculty per Unit		12
			Unit 1	Unit 2	
2.	ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment		2	3	3
3.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems		3	6	3
4.	Rubber dam kit		1 per chair	1 per chair	11
5.	Autoclaves for bulk instrument sterilization vacuum (Front loading)		2	3	2
6.	Autoclaves for hand piece sterilization		1	1	2
7.	Apex locators		2	4	3
8.	Pulp tester		2	4	2
9.	Equipments for injectable thermoplasticized gutta percha		1	2	1
10.	Operating microscopes 3 step or 5 step magnification		1	1	1
11.	Surgical endo kits (Microsurgery)		2	2	2
12.	Set of hand cutting instruments		1	2	9
13.	Sterilizer trays for autoclave		4	6	4

  
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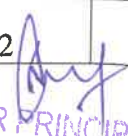
14.	Ultrasonic cleaner capacity 3.5 lts		1	1	1
15.	Variable Intensity polymerization equipments - VLC units	Desirable	1	1	1
16.	Conventional VLC units		2	4	15
17.	Needle destroyer		2	2	2
18.	Magnifying loupes		1	2	3
19.	LCD projector		1	1	1
20.	Composite kits with different shades and polishing kits		2	4	2
21.	Ceramic finishing kits, metal finishing kits	In ceramic labs	2	3	2
22.	Amalgam finishing kits		2	3	2
23.	RVG with x-ray machine developing kit		1	1	1
24.	Chair side micro abrasion		1	1	1
25.	Bleaching unit		1	1	1
26.	Instrument retrieval kits with Piezo Electric ultrasonic tips		1	1	1
27.	Computer with internet connection with attached printer and scanner		1	1	3
28.	Refrigerator		1	1	1
29.	Equipments for casting procedures				
30.	Equipments for ceramics including induction casting machines/ burnout preheat furnaces/ wax elimination furnaces		1	1	1
31.	Lab micro motor/ metal grinders / sand blasters/ polishing lathes/ duplicator equipment/ vacuum investment equipments		1	1	1
32.	Laser (preferably hard tissue)		1	1	1
33.	Face bow with semi adjustable articulator		1	2	1
34.	GP cutter		3	6	3
35.	Proffin system		1	1	1

  
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DEPARTMENT: ORAL MEDICINE AND RADIOLOGY

S.No.	Name	Specification	Quantity		Availability
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	One chair per post-graduate student and two for faculty per Unit		11
			1 Unit	2 Units	
2.	Intra Oral X-ray Machine		1	1	1
3.	RVG with intra oral radiography machine (FDA Approved)	55-70 kVp with digital compatibility	1	1	1
4.	Extra oral radiography machine	100 kvp	1	1	1
5.	Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer	Digital compatibility	1	1	1
6	Intra-oral camera		1	2	1
7	Pulp tester		2	4	2
8	Autoclave		1	1	1
9	Punch biopsy tool		2	3	2
10	Biopsy equipment		1	2	1
11	Surgical trolley		2	2	2
12	Emergency medicines kit		1	1	1
13	Extra oral cassettes with intensifying screens (Conventional and rare earth)		4	6	4
14	Lead screens		2	2	2
15	Lead aprons		2	2	2
16	Lead gloves		2	2	2

  
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17	Radiographic filters (Conventional and rare earth)		1	1	1
18	Dark room with safe light facility		1	1	1
19	Automatic radiographic film processors		2	2	2
20	Radiographic film storage lead containers		1	1	1
21	Thyroid collars		1	1	1
22	Digital sphygmomanometer		1	1	1
23	Digital blood glucose tester		1	1	1
24	Digital camera		1	1	1
25	X-ray viewer boxes		2	3	2
26	Lacrimonal probes		2 sets	2 Sets	2 sets
27	Sialography cannula		2 sets	2 Sets	2 sets
28	Illuminated mouth mirror and probe		2	2	2
29	Computer with internet connection with attached printer and scanner		1	1	1
30	CBCT	Optional	1	1	--
31	LCD projector		1	1	1
32	Refrigerator		1	1	1

  
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EQUIPMENTS

DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

S.No.	Name	Specification	Quantity		Availability
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and high motorised suction, with micromotor and micro motor attachment	One chair per post-graduate student and Two chairs for the faculty in each unit.		
			1 Unit	2 Units	
2.	Autoclave	Front loading	2	3	2
3.	Fumigators		1	1	2
4.	Oscillating saw, Reciprocating, Saggital saw with module	With all hand pieces	1	1	1
5.	<i>Surgical instruments</i> General surgery kit including tracheotomy kit		2	2	2
	Minor oral surgery kit		5	10	6
	Osteotomy kit		1	1	1
	Cleft surgery kit	Minimum 2 systems	1	1	1
	Bone grafting kit		1	1	1
	Emergency kit		1	1	1
	Trauma set including bone plating kit		2	2	2
	Implantology kit		1	1	1
	with implants		2	2	2
6.	Distraction osteogenesis kit		1	1	1
7.	Piezo surgical unit		1	1	1
8.	Surgical Magnifying loops 3x		1	1	2

  
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9.	Operating microscope and Microsurgery kit	desirable	1	1	1
10.	Dermatomes		1	1	1
11.	Needle destroyer		2	3	2
12.	Ultrasonic Cleaner capacity 3.5 lts		1	1	1
13.	Formalin chamber		1	1	10
14.	Pulse oxymeter/NIBP		1	1	2
15.	Ventilator		1	1	1
16.	Major operation theatre with all facilities as per MCI guidelines		1	1	1
17.	Recovery and Intensive Care Unit with all necessary life support equipments		2 beds	2 beds	3 beds
18.	Fiber optic light		1	1	1
19.	In-patient beds		20	20	20
20.	Fiber optic laryngoscope		1	1	1
21.	Computer with internet connection with attached printer and scanner		1	1	1
22.	LCD projector		1	1	1
23.	Refrigerator		1	1	1

  
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ORAL & MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

S. No.	NAME	SPECIFICATION	Quantity		Availability
			1 Unit	2 Units	
1.			1 Unit	2 Units	
2.	Dental Chairs and Units	Electrically operated with shadow less lamp, spittoon, 3 way syringe, instrument tray and suction	3	6	4
2.	Adequate laboratory glassware's as required for processing of biopsy specimens and staining.	Reasonable quantity should be made available			available
3.	Adequate tissue capsules / tissue embedding cassettes	Reasonable quantity should be made available			29 (TISSUE CAPSULE)
4.	Paraffin wax bath	thermostatically controlled	1	1	2
5.	Leuckhart pieces		10	10	28
6.	Block holders		25	25	30
7.	Microtome	Manual	1	1	3
8.	Microtome	semi – automated	1	1	1
9.	Tissue floatation water bath	thermostatically controlled	1	1	2
10.	Slide warming table		1	1	1
11.	Steel slide racks for staining		5	5	7
12.	Diamond glass marker		2	2	3
13.	Research microscope with phase contrast, dark field, polarization, image analyzer , photomicrography attachments		1	1	1
14.	Multi head microscope	Penta headed	1	1	1
15.	Binocular compound microscope		2 for faculty and one per student	4 for faculty and one per student	13
16.	Stereo microscope		1	1	1
17.	Aluminum slide trays		5	5	15
18.	Wooden / plastic slide boxes		5	5	21
19.	Wax block storing cabinet		5,000	10,000	1 (10,000)

  
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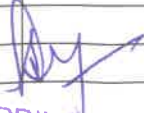


			capacity	capacity	capacity)
20.	Slide storing cabinet		5,000 capacity	10,000 capacity	3 (10,000 capacity)
21.	Refrigerator		1	1	1
22.	Pipettes		5	5	5
23.	Surgical kit for biopsy		3	6	3
24.	Immuno histo chemistry lab		1	1	1
25.	Computer with Internet Connection with attached printer and scanner		1	1	1
26.	LCD projector		1	1	1
27.	Desirable Equipment				
28.	Cryostat		1	1	1
29.	Fluorescent microscope		1	1	1
30.	Hard tissue microtome		1	1	1
31.	Tissue storing cabinet (frozen)		1	1	1
32.	Microwave		1	1	1

### EQUIPMENTS

DEPARTMENT : ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS

S. No.	NAME	SPECIFICATION	Quantity		Availability
1.	Dental Chairs and Unit	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
2.			1 Unit	2 Units	
3.	Vacuum /pressure moulding unit		1	1	2
4.	Hydrogen soldering unit		1	1	2
5.	Lab micromotor		3	5	6
6.	Spot welders		3	5	8
7.	Model trimmer (Double disc)		2	3	4
8.	Light curing unit		2	2	2
9.	High intensity light curing unit		1	2	4
10.	Polishing lathes		2	3	4
11.	Tracing tables		3	5	3
12.	SLR digital camera		1	1	1
13.	Scanner with transparency adapter		1	1	1
14.	X-ray viewer		3	4	5
15.	LCD projector		1	1	1

  
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16.	Autoclaves for bulk instrument Sterilization vacuum (Front loading)		1	1	1
17.	Needle destroyer		1	1	1
18.	Dry heat sterilizer		1	1	1
19.	Ultrasonic scaler		1	1	6
20.	Sets of Orthodontic pliers		3	3	16
21.	Orthodontic impression trays		3	5	3
22.	Ultrasonic cleaner capacity 3.5 lts		1	1	2
23.	Electropolisher		1	1	1
24.	Typhodonts with full teeth set		3	6	8
25.	Anatomical articulator with face bow attachments		1	1	1
26.	Free plane articulators		1	1	4
27.	Hinge articulators		4	4	5
28.	Computer software for cephalometrics		1	1	1
29.	Computer with internet connection with attached printer and scanner		1	1	1
30.	Mini Implant kit		1	1	2
31.	Refrigerator		1	1	1


### EQUIPMENTS

#### DEPARTMENT: PAEDODONTICS AND PREVENTIVE DENTISTRY

S. No.	NAME	SPECIFICATION	Quantity	Availability
1.	Dental Chairs and Units	Electrically operated with shadowless lamp, spittoon, 3 way syringe, and motorised suction, micromotor attachment with contra angle miniature handpiece, airotor attachment with miniature handpiece, dental operator stool (40% dental chairs shall be pedo chairs)	One chair per post-graduate student and two for faculty per Unit	11
2.			1 Unit	2 Units

  
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3.	Pedo extraction forceps sets		3	4	3
4.	Autoclaves for bulk instrument sterilization vacuum (Front loading)		1	2	1
5.	RVG with intra oral x-ray unit		1	1	1
6.	Automatic developer		1	1	1
7.	Pulp tester		2	3	2
8.	Apex locator		1	1	1
9.	Rubber dam kit	One set per student	1	1	9 (1 per PG)
10.	Injectable GP condenser		1	1	1
11.	Endodontic pressure syringe		1	1	1
12.	Glass bead steriliser		2	4	2
13.	Spot welder		2	3	2
14.	Ultrasonic scalers		2	4	2
15.	Needle destroyer		1	1	1
16.	Formalin chamber		1	1	1
17.	Ultrasonic cleaner capacity 3.5 lts		1	1	1
18.	X-ray viewer		2	3	2
19.	Amalgamator		1	2	1
20.	Plaster dispenser		2	2	2
21.	Dental lathe		1	2	1
22.	Vibrator		2	3	2
23.	Typodonts	One set per P.G. Student for 1 <sup>st</sup> year only	1 per PG	1 per PG	1 set per PG
24.	Soldering unit		1	1	1
25.	Band pinching beak pliers		2 Sets	2 Sets	2 Sets
26.	Proximal contouring pliers		2	3	2
27.	Crown crimping pliers		2	3	2
28.	Double beak pliers anterior and posterior		2	3	2
29.	Lab micro motor		2	3	2
30.	Acryliser		1	2	1
31.	Magnifying loupes		1	1	1
32.	Conscious sedation unit	Desirable	1	1	1
33.	Pulse oxymeter		1	1	1
34.	Phantom head table with attached Light, Airtor and micro motor	One set per P.G. Student for 1 <sup>st</sup> year only	1 per PG	1 per PG	3 (1 per PG)
35.	Computer with internet connection with attached printer and scanner		1	1	1
36.	LCD projector		1	1	1
37.	Refrigerator		1	1	1

  
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EQUIPMENTS

DEPARTMENT: PERIODONTOLOGY


S. No.	NAME	SPECIFICATION	Quantity		Availability
1.	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	
2.	Autoclave (fully automatic) front loading		1	2	1
3.	Steel bin		4	6	4
4.	Airoter hand pieces		2	2	2
5.	UV chamber		1	1	1
6.	Formalin chamber		1	1	2
7.	W.H.O probe		2	2	3
8.	Nabers probe		2	2	2
9.	Williams probe		2	2	5
10.	UNC-15 probe		4	4	5
11.	Gold Man fox probe		1	1	3
12.	Pressure sensitive probe		1	1	1
13.	Marquis color coded probe		1	1	1
14.	Supra gingival scalers	Set	2	2	2
15.	Sub gingival scaler	Set	2	2	2
16.	Arkansas sharpening stone		1	1	1

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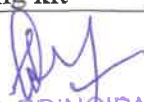
Surgical Instruments					
1.	Routine surgical instrument kit (Benquis periosteal elevator, periosteal)	Set	2	3	3
2.	Surgery trolleys		6	6	6
3.	X ray viewer		1	2	2
4.	Surgical cassette with sterilisation pouches		4	6	4
5.	Electro surgery unit		1	1	1
Special Surgical Instruments					
1.	Kirkland's knife		1	1	2
2.	Orban's knife		1	1	2
3.	Paquette blade handle		1	1	1
4.	Krane kaplan pocket marker	Set	1	1	1
5.	Mc Calls universal curettes	Set	1	1	1
6.	Gracey's curettes (No.1-18)	Set	2	2	4
7.	Mini five curettes	Set	1	1	1
8.	Cumine scaler		1	1	3
9.	Mallet		1	1	2
10.	Chisel		1	1	1
11.	Oschenbein chisel		1	1	1
12.	Schluger bone file		1	1	1
13.	Bone fixation screw kit	Optional	1	1	1
14.	Bone scrapper	Optional	1	1	1
15.	Bone trephines for harvesting autografts	1 Set Optional	1	1	1
16.	Bone regenerative materials	Bone graft and GTR membranes	5	5	5
17.	Local drug delivery systems	At least two	1 each	1	2

  
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		different drugs delivery agents			
18.	Root conditioning agent	At least two different agents	2	2	2
19.	Micro needle holder		1	1	2
20.	Micro scissors		1	1	2
21.	Magnifying loop (2.5 – 3.5)		1	2	1
22.	Operating microscope	Optional	1	1	--
23.	3 <sup>rd</sup> generation digital probe	Optional	1	1	--
24.	Bone expander and bone crestor	Optional	1	1	1
25.	Distraction osteogenesis kit	Optional	1	1	--
26.	Bone mill	Optional	1	1	1
27.	Bone graft / membrane placement spoon		1	1	1
28.	Bone condenser		1	1	2
29.	Peizo-surgery unit	Optional	1	1	--
30.	Centrifuge for PRP/PRF preparation	Optional	1	1	1
31.	Soft tissue laser (8 watt)		1	1	1
32.	Osteotome	Set Optional	1	1	1
<b>MISCELLANEOUS INSTRUMENTS</b>					
1.	Composite gun with material kit		1	1	1
2.	Splinting kit with material		2	3	1
3.	Composite finishing kit		1	1	1
4.	Glass Ionomer filling instruments		1	1	1
5.	Digital camera		1	1	1
6.	Intra Oral camera		1	1	1
7.	Ultrasonic cleaner		1	1	1

  
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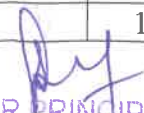
8.	Emergency kit		1	1	1
9.	Refrigerator		1	1	1
10.	X-ray viewer		2	2	2
11.	LCD projector		1	1	1
12.	Computer with internet connection with attached printer and scanner		1	1	2
	<u>Implant Clinic Equipments</u>				
13.	Electrical dental chair and unit		1	1	1
14.	Physio dispenser		1	1	1
15.	Implant kit	At least two different systems	2	2	2
16.	Implants		10	10	30
17.	Implant maintenance kit (plastic instruments)		1 set	1 set	1 set
18.	Implant guide		1	1	1
19.	X-ray viewer		1	2	1
20.	Needle destroyer		1	2	2
21.	Ultrasonic cleaner capacity 3.5 lts		1	1	1
22.	Autoclave programmable for all recommended cycles		1	1	1
23.	RVG with x-ray machine		1	1	1
24.	Refrigerator		1	1	1
25.	Surgical kit		2	2	2
26.	Sinus lift kit		1	1	1
27.	Educating models		1	1	3
28.	Implant removing kit		1	1	1

  
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DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

S. No.	NAME	SPECIFICATION	Quantity		Availability
1.	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.		12
			1 Unit	2 Units	
2.	Articulators – semi adjustable/ adjustable with face bow		6	12	6
3.	Micromotor – (Lab Type can also be attached (fixed) to wall		2	4	10
4.	Ultrasonic scaler		2	2	4
5.	Light cures		2	2	5
6.	Hot air oven		1	1	1
7.	Autoclave (front loading)		2	2	2
8.	Surveyor		2	2	2
9.	Refrigerator		1	1	2
10.	X-ray viewer		1	2	5
11.	Pneumatic, Crown bridge remover		2	3	2
12.	Needle destroyer		1	2	2
13.	Intra oral camera		1	1	1
14.	Digital SLR camera		1	1	1
15.	Computer with internet connection with attached printer and scanner		1	1	1
16.	LCD projector		1	1	1
<b>Clinical Lab for Prosthetics</b>					
1.	Plaster dispenser		2	2	2
2.	Model trimmer with carborandum Disc		1	2	2
3.	Model trimmer with diamond disc		1	2	2
4.	High speed lathe		2	3	6
5.	Vibrator		2	4	3
6.	Acrylizer		1	2	2
7.	Dewaxing unit		1	2	3
8.	Hydraulic press		1	1	1
9.	Mechanical press		1	1	2
10.	Vacuum mixing machine		1	1	2
11.	Micro motor lab type		2	3	5
12.	Curing pressure pot		1	1	1

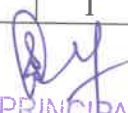
  
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13.	Pressure molding machine		1	1	1
Chrome – Cobalt Lab Equipment					
1.	Duplicator		1	1	1
2.	Pindex system		1	1	1
3.	Burn-out furnace		1	1	4
4.	Welder		1	1	1
5.	Sandblaster	Micro and macro	1	1	3
6.	Electro – polisher		1	1	1
7.	Model trimmer with carborandum disc		1	1	2
8.	Model trimmer with diamond disc		1	1	2
9.	Model trimmer with double disc (one Carborandum and one diamond disc)		1	1	2
10.	Casting machine, motor cast with the safety door closure, gas blow torch with regulator		1	1	1
11.	Dewaxing furnace		1	1	4
	Induction casting machine with vacuum pump, capable of casting titanium chrome cobalt precision metal		1	1	1
12.	Spot welder with soldering, attachment of cable		1	1	1
13.	Steam cleaner		1	1	1
14.	Vacuum mixing machine		1	1	2
15.	Spindle grinder 24,000 ROM with vacuum suction		1	1	3
16.	Wax heater		2	3	2
17.	Wax carvers (Full PKT Set)		2	3	2
18.	Milling machine		1	1	1
19.	Stereo microscope		1	1	1
20.	Magnifying work lamp		1	1	2
21.	Heavy duty lathe with suction		1	1	1
22.	Preheating furnace		1	1	1
23.	Dry model trimmer		1	1	1
24.	Die cutting machine		1	2	1
25.	Ultrasonic cleaner		1	1	2
26.	Composite curing unit		1	1	5
Ceramic Lab Equipment					
1.	Fully programmable porcelain furnace with vacuum pump		1	1	2
2.	Ceramic kit (instruments)		3	3	6
3.	Ceramic materials (kit)		1	1	1
4.	Ceramic polishing kit		2	2	2

  
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Implant Equipment					
1.	Electrical dental chair and unit		1	1	1
2.	Physio dispenser		1	1	1
3.	Implant kit	Minimum 2 systems	2	2	5
4.	Implants		10	10	100
5.	Prosthetic components		10	10	500
6.	Unit mount light cure		1	2	1
7.	X-ray viewer		1	2	5
8.	Needle destroyer		1	2	2
9.	Ultrasonic cleaner capacity 3.5 lts		1	1	2
10.	Autoclave programmable for all recommended cycles		1	2	1
11.	X-ray machine with RVG		1	1	1
12.	Refrigerator		1	1	1
13.	Surgical kit/prosthetic kit		2	2	2
14.	Educating models		1	1	3
15.	Implant removing instruments		1	1	1

  
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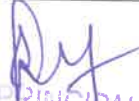
## EQUIPMENTS

### DEPARTMENT : PUBLIC HEALTH DENTISTRY

S. No.	NAME	SPECIFICATION	Quantity	Availability	
	Instruments in the department for Comprehensive Oral Health Care Programme				
1.	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 per post-graduate student and two for faculty per Unit	11	
			1 Unit	2 Units	
2.	Extraction forceps		4 sets	6 sets	4 set
3.	Filling instruments		4 sets	6 sets	4 set
4.	Scaling instruments	Supra gingival scaling	4 sets	6 sets	4 sets
5.	Amalgamator		1	1	1
6.	Pulp tester		1	1	2
7.	Autoclave		1	1	1
8.	X-ray viewer		1	1	2
9.	Instrument cabinet		1	1	1
10.	LCD or DLP multimedia projector		1	1	1
11.	Computer with internet connection with attached printer and scanner		1	1	1
12.	Refrigerator		1	1	1
	For peripheral dental care or field programme				

  
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13.	Staff bus		1	1	1
14.	Mobile dental clinic fitted with at least 2 dental chairs with complete dental unit with fire extinguisher		1	1	2
15.	Ultrasonic scaler,		1	2	2
16.	Ultrasonic cleaner capacity 3.5 lts		1	1	1
17.	Compressor	One with chair			2
18.	Generator		1	1	1
19.	Public address system, audio-visual aids		1	1	1
20.	Television		1	1	1
21.	Digital Versatile Disc Player		1	1	1
22.	Instrument cabinet, emergency medicine kits, Blood pressure apparatus		1	1	2
23.	Portable oxygen cylinder		1	1	2
24.	Portable chair		1	1	2

  
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