

SREE MOOKAMBIKA INSTITUTE OF DENTAL SCIENCES



PADANILAM WELFARE TRUST, V.P.M. HOSPITAL COMPLEX,
PADANILAM, KULASEKHARAM, K.K.DIST.TAMILNADU, PIN-629161
(Approved by the Govt. of Tamilnadu Recognised by Dental Council of India
and Affiliated to The Tamilnadu Dr.M.G.R. Medical University, Chennai)
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MAJOR LABORATORY EQUIPMENTS (UG)

DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

NAME	Quantity in Numbers
Dental Chairs and Units	17
Semi adjustable articulator	2
Extra oral/intra oral tracer	2
Dewaxing unit	1
Curing unit	1
Dental casting machine	1
Wax burnout furnace	1
Pre heating furnace	1
Surveying unit	1
Heavy duty hand piece	3
Autoclave	1
Needle burner with syringe cutter	1
CAD CAM	1
LAB	
Plaster Dispenser	2
Model Trimmer with Carborandum Disc	1
Model Trimmer with Diamond Disc	1
Acrylizer	2
Lathe	1
Flask press	4
Deflasking unit	4
Dewaxing unit	2
Hydraulic Press	2
Mechanical Press	1
Vacuum mixing machine	1
Lab Micromotor	3
Geyser	2
Phantom heads	25
Pre-clinical working tables	50

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CERAMIC AND CAST PARTIAL LABORATORY

NAME	Quantity in Numbers
Plaster Dispensor	2
Duplicator	1
Pindex System	1
Circular saw	1
Burn out furnace	1
Sandblasting machine	1
Electro-polisher	1
Model Trimmer with Carborandum disc	1
Model Trimmer with Diamond disc	1
Induction casting machine	1
Programmable porcelain furnace with vacuum pump with instrument kit and material kit	1
Spot welder with soldering, attachment of cable	1
Vacuum mixing machine	1
Steam Cleaner	1
Spindle Grinder 24,000 RPM with vacuum suction	1
Wax heater	1
Wax carver	1
Curing pressure pot	1
Milling machine	1
Heavy duty lathe with suction	1
Preheating furnace	1
Palatal trimmer	1
Ultrasonic cleaner	1
Composite curing unit	1
Micro surveyor	1
PRE-CLINICAL PROSTHETICS LABORATORY	30

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PLASTER ROOM FOR PRE-CLINICAL WORK	Quantity in Numbers
Plaster dispenser	2
Vibrator	2
Lathe	2
Model Trimmer	1
Carborandum Disc	1
Diamond disc	1


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DEPARTMENT: CONSERVATIVE DENTISTRY AND ENDODONTICS

NAME	Quantity in Numbers
Dental Chairs and Units	17
Rubber dam kits	4
Restorative instruments kits	5
R.C.T. instrument kits	5
Autoclaves	2
Ultrasonic cleaner	1
Needle burner with syringe cutter	3
Amalgamator	2
Pulp Tester-Digital	2
Apex Locator	1
Glass bead sterilizers	4
Intra-oral X-ray Unit	1
Automatic Developer	1
Radiovisiography	1
Endo motor	1
Bleaching unit	1
Magnification loops	1
Injectable gutta percha	1

PHANTOM LAB UNIT	30
Wax Burnout Furnace	1
Centrifugal Casting Machine	1
Heavy duty micromotor	1
Gas cylinder and Oxygen cylinder with burner	1

CLINICAL LABORATORY

Plaster Dispenser	2
Model Trimmer	1
	1
Lathe	1
Lab Micromotor	2
Ultrasonic cleaner	1
Spindle Grinder	1

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Vibrator	1
Burnout furnace	1
Porcelain furnace	1
Sandblasting Machine	1
Lab Airrotor	1
Pindex System	1
Circular saw	1
Vacuum mixer	1
Pneumatic chisel	1
Casting machine	1
CAD CAM	1


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DEPARTMENT: ORAL PATHOLOGY AND ORAL MICROBIOLOGY

NAME	Quantity in Numbers
Dental Chairs and Units	1
Slides	100
Slides Boxes	4
Microscopes	25
Microtome	1
Wax bath	1
Water bath	1
Knife sharpner	1
Hot plate	1
Spencer knife	1
Adequate slides projection system	1

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DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

A) EXODONTIA

NAME	Quantity in Numbers
Dental Chairs and Units	12
Autoclaves	2
Ultrasonic Cleaner	1
Needle burner with syringe cutter	4
Extraction forceps sets	10
Dental elevators	5
Minor Oral surgery kits	3
Emergency drugs tray	1
X-ray viewers	2
Pulse Oxymeter	1
BP apparatus	1
Stethoscope	1
Thermometer	1
Glucometer	1
Oxygen cylinder	1
Oxygen mask adult	1
Oxygen mask Pedo	1
Impaction kit	1
Lab 7icromotor with handpiece	1
Trauma kit	1
High volume suction	1
Surgical straight hand piece	1

B) MINOR SURGERY

Dental Chairs and Units	3
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DEPARTMENT: PERIODONTOLOGY

NAME	Quantity in Numbers
Dental Chairs and Units	17
Surgical instrument sets	3
Autoclave	2
Ultrasonic Cleaner	1
Electro surgical cautery	1
Needle burner with syringe cutter	4
Laser	1
Physio dispenser with implant kit	1
X-ray Viewer (Extra Oral)	1
Hand scaler Supra gingival	5
Hand scaler Sub gingival	5
Set of curettes	1
Electro cautery Kit	1
Periodontal Surgical Kit	2


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DEPARTMENT : ORTHODONTICS

NAME	Quantity in Numbers
Dental Chairs and Units	9
Unit mount scaler	3
Autoclave	1
X-ray viewers	2
Ultrasonic Cleaner	1
I LAB	
Plaster dispenser	2
Vibrator	2
Model Trimmer	1
Micromotor -	2
Lathe	1
OPG with cephalostat	1
Welders	2
Blue Torch	1
Base Formers	2
Typodont	2
Set of Pliers	5
Welder with soldering attachments	1
Hydro solder	1
Typhodont articulator	3
Pressure moulding machine	1
Soldering torch	1
Spot Welder	1

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DEPARTMENT : PAEDIATRIC AND PREVENTIVE DENTISTRY

NAME	Quantity in Numbers
Dental Chairs and Units	10
Autoclaves	1
Ultrasonic cleaner	1
Needle Burner with syringe cutter	2
Amalgamator	1
Pulp Tester-Digital	1
Rubber dam kit for pedo	3
Apex locator	1
Endo motor	1
Injectable gutta percha with condensation	1
Radiovisiography	1
Intra Oral Camera	1
Scaling instruments	5
Restorative instruments	5
Extraction forceps	5
Intra-oral X-ray	1
RCT Instruments Kits	3
Plaster dispenser	2
Model Trimmer	1
Model Trimmer	1
Welder with soldering attachments	1
Vibrator	2
Lab micro motor	2
Dental Lathe	1
Steam cleaner	1
Pressure moulding machine	1

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DEPARTMENT: ORAL MEDICINE AND RADIOLOGY.

NAME	Quantity in Numbers
Dental Chairs and Units	6
Panoramic X-Ray with Cephalometric (Orthopentmogram)	1
Intra Oral X-ray Unit	2
Pulp testers	2
Automatic periapical X-ray Developer	1
Automatic Panoramic with Cephalometric X-ray Developer	1
X-ray viewer	2
Radiovisiography with Intra Oral Camera	1
General X-ray Unit	1
Automatic Developers/Dark Room	1
Lead Aprons	2
Lead Gloves	1
Lead collar	2
X-ray Hangers	6
Diagnostic Kits	20
Lead Screen	1
Biopsy Kit	1
Autoclave	1
Needle Burner with Syringe Cutter	2
CBCT	1
Biopsy Kit	1
Sailography equipment & Kit	1

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DEPARTMENT: PUBLIC HEALTH DENTISTRY

<u>NAME</u>	<u>Quantity in Numbers</u>
Dental Chairs and Units	<u>8</u>
Autoclaves	<u>1</u>
Ultrasonic cleaner	<u>1</u>
Needle burner with syringe cutter	<u>2</u>

<u>MOBILE CLINIC</u>	<u>Quantity in Numbers</u>
Mobile dental van	1
Dental chair with unit	2
Autoclaves	1
Intraoral x-ray	1
Glass bead sterilizers	1
Compressor	1
Metal Cabinet	1
Portable dental chair	2
Stabilizer	1
Generator	1
Water tank	1
Oxygen cylinder	1
Public address system	1
TV and video cassette player	1
Demonstration models	20

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EQUIPMENTS

DEPARTMENT: CONSERVATIVE DENTISTRY AND ENDODONTICS

S.No.	NAME	Quantity
1.	Dental Chairs and Units	One chair & unit per post-graduate student and two chairs with unit for the faculty 1 Unit
2.	ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment	2
3.	Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems	3
4.	Rubber dam kit	1 per chair
5.	Autoclaves for bulk instrument sterilization vacuum (Front loading)	2
6.	Autoclaves for hand piece sterilization	1
7.	Apex locators one for every two chairs	2
8.	Pulp tester	2
9.	Equipments for injectable thermoplasticized gutta percha	1
10.	Operating microscopes 3 step or 5 step magnification	1
11.	Surgical endo kits (Microsurgery)	2
12.	Set of hand instruments (specifications required)	1
13.	Sterilizer trays for autoclave	4
14.	Ultrasonic cleaner capacity 3.5 lts	1
15.	Variable Intensity polymerization equipments - VLC units	1
16.	Conventional VLC units one for every two chairs	2
17.	Needle destroyer	2
18.	Magnifying loupes one for students and one for faculty	1
19.	LCD projector	1
20.	Composite kits with different shades and polishing kits	2
21.	Ceramic finishing kits, metal finishing kits	2
22.	Amalgam finishing kits	2
23.	RVG with x-ray machine developing kit	1
24.	Chair side micro-abrasion	1
25.	Bleaching unit	1
26.	Instrument retrieval kits	1
27.	Computer with internet connection with attached printer and scanner	1



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

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EQUIPMENTS

DEPARTMENT:ORAL & MAXILLOFACIAL PATHOLOGY AND ORALMICROBIOLOGY

S. No.	NAME	QUANTITY IN NUMBERS
1.		1 Unit
2.	Dental Chairs and Units	3
3.	Adequate laboratory glassware's as required for processing of biopsy specimens and staining.	
4.	Adequate tissue capsules / tissue embedding cassettes	
5.	Paraffin wax bath	1
6.	Leuckhart pieces	10
7.	Block holders	25
8.	Microtome	1
9.	Microtome	1
10.	Tissue floatation water bath	1
11.	Slide warming table	1
12.	Steel slide racks for staining	5
13.	Diamond glass marker	2
14.	Research microscope with phase contrast, dark field, polarization, image analyzer , photomicrography attachments	1
15.	Multi head microscope	1
16.	Binocular compound microscope	2 for faculty and one per student
17.	Stereo microscope	1
18.	Aluminum slide trays	5
19.	Wooden / plastic slide boxes	5
20.	Wax block storing cabinet	5,000 capacity
21.	Slide storing cabinet	5,000 capacity
22.	Refrigerator	1
23.	Pipettes	5
24.	Surgical kit for biopsy	3
25.	Immunohisto chemistry lab	1
26.	Computer with Internet Connection with attached printer and scanner	1
27.	LCD projector	1
28.	Desirable Equipment	
29.	Cryostat	
30.	Fluorescent microscope	1



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31.	Hard tissue microtome	1
32.	Tissue storing cabinet (frozen)	1
33.	Microwave	1

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EQUIPMENTS

DEPARTMENT:PERIODONTICS

S. No.	NAME	Quantity
1.	Dental Chairs and Units	One chair and unit per post-graduate student and Two chairs with unit for the faculty
		1 Unit
2.	Autoclave (fully automatic) front loading	1
3.	Steel bin	4
4.	Airoter hand pieces	2
5.	UV chamber	1
6.	Formalin chamber	1
7.	W.H.O probe	2
8.	Nabers probe	2
9.	Williams probe	2
10.	UNC-15 probe	4
11.	Gold Man fox probe	1
12.	Pressure sensitive probe	1
13.	Marquis color coded probe	1
14.	Supra gingival scalers	2
15.	Sub gingival scaler	2
16.	Arkansas sharpening stone	1
	Surgical Instruments	
1.	Routine surgical instrument kit (Benquis periosteal elevator, periotome)	2
2.	Surgery trolleys	6
3.	X ray viewer	1
4.	Surgical cassette with sterilisation pouches	4
5.	Electro surgery unit	1



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	Special Surgical Instruments	
1.	Kirkland's knife	1
2.	Orban's knife	1
3.	Paquette blade handle	1
4.	Krane kaplan pocket marker	1
5.	Mc Calls universal curettes	1
6.	Gracey's curettes (No.1-18)	2
7.	Mini five curettes	1
8.	Cumine scalar	1
9.	Mallet	1
10.	Chisel	1
11.	Oschenbein chisel	1
12.	Schluger bone file	1
13.	Bone fixation screw kit	1
14.	Bone scrapper	1
15.	Bone trephines for harvesting autografts	1
16.	Bone regenerative materials	5
17.	Local drug delivery systems	1 each
18.	Root conditioning agent	2
19.	Micro needle holder	1
20.	Micro scissors	1
21.	Magnifying loop (2.5 – 3.5)	1
22.	Operating microscope	1
23.	3 rd generation digital probe	1
24.	Bone expander and bone crester	1
25.	Distraction osteogenesis kit	1
26.	Bone mill	1



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27.	Bone graft / membrane placement spoon	1
28.	Bone condenser	1
29.	Peizo-surgery unit	1
30.	Centrifuge for PRP/PRF preparation	1
31.	Soft tissue laser (8 watt)	1
32.	Osteotome	1

MISCELLANEOUS INSTRUMENTS		
1.	Composite gun with material kit	1
2.	Splinting kit with material	2
3.	Composite finishing kit	1
4.	Glass Ionomer cement	1
5.	Digital camera	1
6.	Intra Oral camera	1
7.	Ultrasonic cleaner	1
8.	Emergency kit	1
9.	Refrigerator	1
10.	X-ray viewer	2
11.	LCD projector	1
12.	Computer with internet connection with attached printer and scanner	1
13.	Implant Equipment	
14.	Electrical dental chair and unit	1
	Physio dispenser	1
15.	Implant kit	2



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16.	Implants	10
17.	Implant maintenance kit (plastic instruments)	1 set
18.	Implant guide	1
19.	X-ray viewer	1
20.	Needle destroyer	1
21.	Ultrasonic cleaner capacity 3.5 lts	1
22.	Autoclave programmable for all recommended cycles	1
23.	RVG with x-ray machine	1
24.	Refrigerator	1
25.	Surgical kit	2
26.	Sinus lift kit	1
27.	Educating models	1
28.	Implant removing kit	1

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EQUIPMENTS

DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

S.No.	NAME	QUANTITY IN NUMBERS
1.	Dental Chairs and Units	One chair and unit per post-graduate student and Two chairs with unit for the faculty
		1 Unit
2.	Autoclave	2
3.	Fumigators	1
4.	Oscillating saw	1
5.	<i>Surgical instruments</i> General surgery kit including tracheotomy kit Minor oral surgery kit Osteotomy kit Cleft surgery kit Bone grafting kit Emergency kit Trauma set including bone plating kit Implantology kit with implants	2 5 1 1 1 1 2 1
6.	Distraction osteogenesis kit	1
7.	Peizo surgical unit	1
8.	Magnifying loops	1
9.	Operating microscope and Microsurgery kit	1
10.	Dermatomes	1
11.	Needle destroyer	2
12.	Ultrasonic Cleaner capacity 3.5 lts	1
13.	Formalin chamber	1
14.	Pulse oxymeter	1
15.	Ventilator	1
16.	Major operation theatre with all facilities	1



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17.	Recovery and Intensive Care Unit with all necessary life support equipments	2 beds
18.	Fibrooptic light	1
19.	Inpatient beds	20
20.	Fiber optic laryngoscope	1
21.	Computer with internet connection with attached printer and scanner	1
22.	LCD projector	1
23.	Refrigerator	1


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EQUIPMENTS

DEPARTMENT: ORAL MEDICINE & RADIOLOGY

SL. NO.	NAME	QUANTITY IN NUMBERS
1.	Dental Chairs and Units	One chair and unit per post-graduate student and one chair with unit for the faculty
2.		1 UNIT
3.	RVG with intra oral radiography machine (FDA Approved)	1
4.	Extra oral radiography machine	1
5.	Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer	1
6.	Intra-oral camera	1
7.	Pulp tester	2
8.	Autoclave	1
9.	Punch biopsy tool	2
10.	Biopsy equipment	1
11.	Surgical trolley	2
12.	Emergency medicines kit	1
13.	Extra oral cassettes with intensifying screens (Conventional and rare earth)	4
14.	Lead screens	2
15.	Lead aprons	2
16.	Lead gloves	2
17.	Radiographic filters (Conventional and rare earth)	1
18.	Dark room with safe light facility	1
19.	Automatic radiographic film processors	2



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20	Radiographic film storage lead containers	1
21	Thyroid collars	1
22	Digital sphygmomanometer	1
23	Digital blood glucose tester	1
24	Digital camera	1
25	X-ray viewer boxes	2
26	Lacrimal probes	2 sets
27	Sialography cannula	2 sets
28	Illuminated mouth mirror and probe	2
29	Computer with internet connection with attached printer and scanner	1
30	LCD projector	1
31	Refrigerator	1

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EQUIPMENTS


DEPARTMENT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

SL.NO	NAME	QUANTITY IN NUMBERS
	Dental Chairs and Unit	One chair & unit per PG student and Two chairs with unit for the faculty 1 Unit
1	Vacuum /pressure moulding unit	1
2	Hydrogen soldering unit	1
3	Lab micromotor	3
4	Spot welders	3
5	Model trimmer (Double disc)	2
6	Light curing unit	2
7	High intensity light curing unit	1
8	Polishing lathes	2
9	Tracing tables	3
10	SLR digital camera	1
11	Scanner with transparency adapter	1
12	X-ray viewer	3
13	LCD projector	1
14	Autoclaves for bulk instrument Sterilization vacuum (Front loading)	1
15	Needle destroyer	1
16	Dry heat sterilizer	1
17	Ultrasonic scaler	1
18	Sets of Orthodontic pliers	3
19	Orthodontic impression trays	3
20	Ultrasonic cleaner capacity 3.5 lts	1
21	Electropolisher	1
22	Typodonts with full teeth set	3
23	Anatomical articulator with face bow attachments	1
23	Free plane articulators	1
25	Hinge articulators	4



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26	Computer software for cephalometrics	1
27	Computer with internet connection with attached printer and scanner	1
28	Refrigerator	1


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EQUIPMENTS

DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

SL.NO.	NAME	QUANTITY IN NUMBERS
1.	Electrical Dental Chairs and Units	One chair and unit per PG student and two chairs with unit for the faculty.
		1 UNIT
2.	Articulators – semi adjustable/ adjustable with face bow	6
3.	Micromotor – (Lab Type can also be attached (fixed) to wall	2
4.	Ultrasonic scaler	2
5.	Light cures	2
6.	Hot air oven	1
7.	Autoclave	2
8.	Surveyor	2
9.	Refrigerator	1
10.	X-ray viewer	1
11.	Pneumatic, Crown bridge remover	2
12.	Needle destroyer	1
13.	Intra oral camera	1
14.	Digital SLR camera	1
15.	Computer with internet connection with attached printer and scanner	1
16.	LCD projector	1
	Clinical Lab for Prosthetics	
1.	Plaster dispenser	2
2.	Model trimmer with carborandum Disc	1
3.	Model trimmer with diamond disc	1
4.	High speed lathe	2
5.	Vibrator	2
6.	Acrylizer	1
7.	Dewaxing unit	1
8.	Hydraulic press	1
9.	Mechanical press	1
10.	Vacuum mixing machine	1
11.	Micro motor lab type	2
12.	Curing pressure pot	1
	Chrome – Cobalt Lab Equipment	
1.	Duplicator	



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

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9.	Ultrasonic cleaner capacity 3.5 lts	1
10.	Autoclave programmable for all recommended cycles	1
11.	X-ray machine with RVG	1
12.	Refrigerator	1
13.	Surgical kit/prosthetic kit	2
14.	Educating models	1
15.	Implant removing instruments	1

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