

MALLA REDDY DENTAL COLLEGE FOR WOMEN

MAJOR EQUIPMENTS LIST

DEPARTMENT: PROSTHODONTICS AND CROWN & BRIDGE

Name	Specification	Available
Dental Chairs and Units	As per specification	34
Semi adjustable articulator	With face bow	2
Extra oral/intra oral tracer		2
Dewaxing unit		2
Curing unit		2
Dental casting machine		1
Wax burnout furnace		1
Pre heating furnace		1
Surveying unit		2
Heavy duty hand piece	Lab micromotors	4
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Needle burner with syringe cutter		2
Plaster Dispenser	One each for plaster and stone plaster	2
Model Trimmer with Carborandum Disc		1
Model Trimmer with Diamond Disc		2
Acrylizer		3
Lathe		2
Flask press		4
Deflasking unit		4
Dewaxing unit		3
Hydraulic Press		3

Mechanical Press		2
Vacuum mixing machine		1
Lab Micro motor	With heavy duty handpiece	4
Curing pressure pot		1
Porcelain furnace		2
Vibrator		2
Sand blasting unit		2
Ultrasonic cleaner		2
Model Trimmer		4
Hot water sterilizer		2
Geyser	Compound bath	2
H.P. grinder with suction		3
Heavy duty lathe		2
Phantom heads		60
Pre-clinical working tables	Gas connection & bunson burner	108

CERAMIC AND CAST PARTIAL LABORATORY

NAME	SPECIFICATIONS	Required
Plaster Dispensor	One each for plaster and stone plaster	2
Duplicator		1
Pindex System		1
Circular saw		1
Burn out furnace		1
Sandblasting machine	With two containers	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	5 liters capacity	1
Composite curing unit		1
Micro surveyor		1

PRE-CLINICAL PROSTHETICS 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	108 20
PLASTER ROOM FOR PRE-CLINICAL WORK		
Plaster dispenser	One each for plaster and stone plaster	2
Vibrator		2
Lathe		2
Model Trimmer		1
Carborandum Disc		1
Diamond disc		1

DEPARTMENT : CONSERVATIVE DENTISTRY AND ENDODONTICS

Name	Specification	Available
Dental Chairs and Units	As per specification	34
Rubber dam kits		8
Restorative instruments kits		10
R.C.T. instrument kits		13
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket	2
Needle burner with syringe cutter		4
Amalgamator	With auto proportion, auto dispenser	3
Rubber dam kits		6
Pulp Tester-Digital		4
Apex Locator		2
Glass bead sterilizers		6
Plaster dispensers		2
Vibrator		2
Ceramic Unit		1
Casting machine		1
Intra-oral X-ray Unit	Proper radiation safety	1
Automatic Developer		1
Radiovisiography	RVG with Computer	1
Endo motor	With torque control Hps	1
Bleaching unit		1
Magnification loops		2
Injectable gutta percha		2
PHANTOM LAB UNIT	Phantom Table fitted with Halogen Operating Light Phantom Head body type neck joint for all the movement, TMJ movement. Modular with Air rotor, Micro motor with contra angle Hps, 3-way syringe, jaw with ivory teeth, preferably soft gingival, dental operator's stool (<u>not to use extracted or cadaver teeth</u>).	60

CHEMICAL LABORATORY

Name	Specification	Available
Plaster Dispenser	One each for plaster and stone plaster	2
Model Trimmer	Carborandum disc	1
	Diamond disc	1
Lathe	Heavy Duty	2
Lab Micromotor	With heavy duty handpiece	3
Ultrasonic cleaner	Minimum capacity 5 liters	1
Spindle Grinder		1
Vibrator		2
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	Motor cast/induction casting preferred	1

DEPARTMENT : ORAL PATHOLOGY AND ORAL MICROBIOLOGY

Name	Specification	Available
Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	2
Microscopes		40
Microtome		1
Wax bath		1
Water bath		1
Knife sharpner		1
Hot plate		1
Spencer knife		1

DEPARTMENT: ORAL & MAXILLOFACIAL SURGERY

A) EXODONTIA

Name	Specification	Available
Dental Chairs and Units	As per specification	30
Autoclaves	Front loading Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket	2
Needle burner with syringe cutter		6
Extraction forceps sets	Complete set	20
Dental elevators	Complete set	10
Minor Oral surgery kits		6
Emergency drugs tray		1
Oxygen cylinder with mask		1
X-ray viewers		2
Computer	Minimum Pentium IV	1

B) MINOR SURGERY

Dental Chairs and Units	As per specification	5
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DEPARTMENT : PERIODONTOLOGY

Name	Specification	Available
Dental Chairs and Units	As per specification	34
	Note: Atleast 25% of the units should have the Airpolisher.	
Scaling instrument sets		10
Surgical instrument sets		6
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3
Ultrasonic scaler	Minimum capacity 13 liters with mesh bucket	2
Electro surgical cautery		1
Needle burner with syringe cutter		6
LASER	Soft tissue laser	1
Surgical motor with physio dispenser		1

DEPARTMENT : ORTHODONTICS

Name	Specification	Available
Dental Chairs and Units	As per specification	18
Unit mount scaler		5
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2
ORTHO LAB		
Plaster dispenser	One each for plaster and stone plaster	2
Vibrator		2
Model Trimmer		2
Micromotor -	heavy duty	4
Lathe		2
X-ray viewers		2
OPG with cephalostat	If available in radiology its is adequate.	1
Welders		4
Blue Torch		1
Base Formers		4
Typodont		4
Set of Pliers		10
Welder with soldering attachments		1
Hydro solder		1
Typodont articulator	With metal teeth wax rim of Class I, II, III	4
Pressure moulding machine		1

DEPARTMENT : PAEDIATRIC AND PREVENTIVE DENTISTRY

Name	Specification	Available
Dental Chairs and Units	As per specification (Pedo chair preferred)	20
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2
Needle Burner with syringe cutter		3
Amalgamator		1
Pulp Tester-Digital		1
Rubber dam kit for pedo		5
Apex locator		1
Endo motor	With torque control HPs	1
Injectable gutta percha with condensation		1
Radiovisiography	Digital intra X-ray system with pedo sensor and software	1
Intra Oral Camera	With high resolution	1
Scaling instruments		10
Restorative instruments		10
Extraction forceps		10
Intra-oral X-ray		1
Automatic Developer		1
Computer	Minimum Pentium IV	1

PEDO LAB		
Name	Specification	Available
Plaster dispenser	One each for plaster and stone plaster	2
Model Trimmer	With diamond disc	1
Model Trimer	Double disc one diamond and one carborandum disc	1
Welder with soldering attachments		1
Vibrator		2
Lab micro motor	Heavy duty with Hps	3
Dental Lathe		1
Model Trimmer		1
Steam cleaner		1
Pressure moulding machine		1
Carborandum Disc		1
Diamond disc		1

DEPARTMENT : ORAL MEDICINE AND RADIOLOGY.

Name	Specification	Available
	(Space allocation for each Dental chair 100 Sq Ft in all the Departments)	
Dental Chairs and Units	As per specification	12
Panoramic X-Ray with Cephalometric	Preferably digital	1
Intra Oral X-ray Unit	70 KV , 8mA, high frequency preferably Digital timer	3
Pulp testers	Digital	3
Automatic periapical X-ray Developer		1
Automatic Panoramic with Cephalometric X-ray Developer		1
X-ray viewer	For Panoramic and Cephalometric films	2
Radiovisiography	Digital Intra X-ray System with one Sensor and Software	1
General X-ray Unit		1
Ortho Pantmograph	preferably digital	1
Automatic Developers/ <i>Dark Room</i>		2
Lead aprons		2
Lead Gloves		1
X-ray Hangers		6
X-ray viewers		2
Diagnostic Kits	Mouth mirror, dental probe, college tweezers	40
<i>Lead Screen</i>		1
<i>Biopsy Kit</i>		1
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2
Computers	Minimum Pentium -IV	1
Intra Oral Camera	With High resolution	1
Needle Burner with Syringe Cutter		2

DEPARTMENT: PUBLIC HEALTH DENTISTRY

Name	Specification	Available
Dental Chairs and Units	As per specification	16
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2
Needle burner with syringe cutter		4
MOBILE CLINIC		
Mobile dental van	Mobile dental van with two dental chairs with all the attachments and adequate sitting space for 15 to 20 people	
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.	
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	1
Intraoral x-ray	Portable, 70 KV, 8mA	1
Glass bead sterilizers		1
Compressor	1.25HP	1
Metal Cabinet	With wash basin	1
Portable dental chair	Suitcase unit with airrotor, micromotor, scaler and compressor 0.25HP	2
Stabilizer	4KV	1
Generator	4KV	1
Water tank	400ltrs	1
Oxygen cylinder		1
Public address system		1
TV and video cassette player		1
Demonstration models		