

Mamata Dental College
Khammam – 507 002

LIST OF EQUIPMENT (DEPARTMENT WISE)

1) PROSTHODONTICS AND CROWN & BRIDGE

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	34	34
Semi adjustable articulator	With face bow	4	4
Extra oral/intra oral tracer		4	4
Dewaxing unit		2	2
Curing unit		2	2
Dental casting machine		1	1
Wax burnout furnace		1	1
Pre heating furnace		1	1
Surveying unit		2	1
Heavy duty hand piece	Lab micromotors	4	4
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	2
Needle burner with syringe cutter		2	2
CAD CAM		1(Optional)	-
LAB			
Plaster Dispenser	One each for plaster and stone plaster	2	2
Model Trimmer with Carborandum Disc		1	1
Model Trimmer with Diamond Disc		2	2
Acrylizer		3	3
Lathe		2	2
Flask press		4	4
Deflasking unit		4	4
Dewaxing unit		3	3
Hydraulic Press		3	3
Mechanical Press		2	2
Vacuum mixing machine		1	1
Curing pressure pot		1	1
Hot water sterilizer	Compound bath	2	2
Geyser		2	2
Phantom heads		50	50
Pre-clinical working tables	Gas connection & bunson burner	100	100



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CERAMIC AND CAST PARTIAL LABORATORY

NAME	SPECIFICATIONS	Required	Available
Plaster Dispensor	One each for plaster and stone plaster	2	2
Duplicator		1	1
Pindex System		1	1
Circular saw		1	1
Burn out furnace		1	1
Sandblasting machine	With two containers	1	1
Electro-polisher		1	1
Model Trimmer with Carborandum disc		1	1
Model Trimmer with Diamond disc		1	1
Induction casting machine		1	1
Programmable porcelain furnace with vacuum pump with instrument kit and material kit		1	1
Spot welder with soldering, attachment of cable		1	1
Vacuum mixing machine		1	1
Steam Cleaner		1	1
Spindle Grinder 24,000 RPM with vacuum suction		1	1
Wax heater		1	1
Wax carver		1	1
Curing pressure pot		1	1
Milling machine		1	1
Heavy duty lathe with suction		1	1
Preheating furnace		1	1
Palatal trimmer		1	1
Ultrasonic cleaner	5 liters capacity	1	1
Composite curing unit		1	1
Micro surveyor		1	1
PRE-CLINICAL PROSTHETICS LABORATORY	Work table preferably complete stainless steel fitted with light, Bunsen burner, air blower, working stool.	60	60
	Adequate number of lab micro motor with attached hand piece	20	20

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

2) CONSERVATIVE DENTISTRY AND ENDODONTICS

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	34	34
Rubber dam kits		6	6
Restorative instruments kits		10	10
R.C.T. instrument kits		10	10
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3	3
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket	2	2
Needle burner with syringe cutter		4	4
Amalgamator	With Autoclave proportion, Autoclave dispenser	3	3
Pulp Tester-Digital		4	4
Apex Locator		2	2
Glass bead sterilizers		6	6
Plaster dispensers		2	2
Vibrator		2	2
Intra-oral X-ray Unit	Proper radiation safety	1	1
Automatic Developer		1	1
Radiovisiography	RVG with Computer	1	1
Endo motor	With torque control Hps	3	3
Bleaching unit		1	1
Magnification loops		2	2
Injectable gutta percha		3	3
CAD CAM		1(Optional)	-

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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 (not to use extracted or cadaver teeth).	60		60
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CLINICAL LABORATORY

Plaster Dispenser	One each for plaster and stone plaster	2		2
Model Trimmer	Carborandum disc	1		1
	Diamond disc	1		1
Lathe	Heavy Duty	2		2
Lab Micromotor	With heavy duty handpiece	3		3
Ultrasonic cleaner	Minimum capacity 5 liters	1		1
Spindle Grinder		1		1
Vibrator		2		2
Burnout furnace		1		1
Porcelain furnace		1		1
Sandblasting Machine		1		1
Lab Airrotor		1		1
Pindex System		1		1
Circular saw		1		1
Vacuum mixer		1		1
Pneumatic chisel		1		1
Casting machine	Motor cast/induction casting preferred	1		1
Ceramic Unit		1		1

3) ORAL PATHOLOGY AND ORAL MICROBIOLOGY

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	With shadowless lamp, spittoon, 3 way syringe, instrument tray and suction	2	2
Slides		100	100
Slides Boxes		4	4
Microscopes		50	50
Microtome		1	1
Wax bath		1	1
Water bath		1	1


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Knife sharpner		1	1
Hot plate		1	1
Spencer knife		1	1
Adequate slides projection system		1	1

4) ORAL & MAXILLOFACIAL SURGERY

A) EXODONTIA

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	25	25
Autoclaves	Front loading Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	4	4
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket	2	2
Needle burner with syringe cutter		8	8
Extraction forceps sets	Complete set	20	20
Dental elevators	Complete set	10	10
Minor Oral surgery kits		6	6
Emergency drugs tray		2	2
X-ray viewers		2	2
Pulse Oxymeter		2	2
BP appartus		2	2
Stethoscope		2	2
Thermometer		2	2
Glucometer		1	1
Oxygen cylinder		2	2
Oxygen mask adult		2	2
Oxygen mask Pedo		2	2
Impaction kit		3	3
Lab micromotor with handpiece		3	3
Trauma kit		1	1
High volume suction		2	2
Surgical straight hand piece		4	4

B) MINOR SURGERY

Dental Chairs and Units	As per specification	5	5
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5) PERIODONTOLOGY

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	Atleast 50% of the units should have the Ultrasonic scaler with high volume suction.	34	34
	Note: Atleast 25% of the units should have the Airpolisher.		
Surgical instrument sets		6	6
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	3	3
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket	2	2
Electro surgical cautery		1	1
Needle burner with syringe cutter		4	4
Laser	Soft tissue laser	1	1
Physio dispenser with implant kit		1	1
X-ray Viewer (Extra Oral)		2	2
Hand scaler Supra gingival	Set of 8	10	10
Hand scaler Sub gingival	Set of 6	10	10
Set of curettes	Set of 12	2	2
Electro cautery Kit		1	1
Periodontal Surgical Kit		3	3

6) ORTHODONTICS

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	18	18
Unit mount scaler		5	5
Autoclave	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	2	2
Ultrasonic Cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2	2

ORTHO LAB			
Plaster dispenser	One each for plaster and	2	2


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	stone plaster		
Vibrator		2	2
Model Trimmer		2	2
Micromotor –	heavy duty	4	4
Lathe		2	2
X-ray viewers		2	2
OPG with cephalostat	If available in radiology its is adequate.	1	1
Welders		4	4
Blue Torch		1	-
Base Formers		4	4
Typodont		4	4
Set of Pliers		10	10
Welder with soldering attachments		1	1
Hydro solder		1	1
Typodont articulator	With metal teeth wax rim of Class I, II, III	4	4
Pressure moulding machine		1	1
Soldering torch		1	1
Spot Welder		1	1

7) PAEDIATRIC AND PREVENTIVE DENTISTRY

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

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RCT Instruments Kits		5	5
Automatic Developer		1	1
Plaster dispenser	One each for plaster and stone plaster	2	2
Model Trimmer	With diamond disc	1	1
Model Trimmer	With Carborandum disc	1	1
Welder with soldering attachments		1	1
Vibrator		2	2
Lab micro motor	Heavy duty with Hps	3	3
Dental Lathe		1	1
Steam cleaner		1	1
Pressure moulding machine		1	1

8) ORAL MEDICINE AND RADIOLOGY.

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	12	12
Panoramic X-Ray with Cephalometric	Preferably digital AERB Certified	1	1
Intra Oral X-ray Unit	AERB Certified	3	3
Pulp testers	Digital	3	3
Automatic periapical X-ray Developer		1	1
Automatic Panoramic with Cephalometric X-ray Developer		1	1
X-ray viewer	For Panoramic and Cephalometric films	2	2
Radiovisiography with Intra Oral Camera	Digital Intra X-ray System with one Sensor and Software	1	1
General X-ray Unit		1	1
Automatic Developers / Dark Room	AERB Criteria	1	1
Lead Aprons		2	2
Lead Gloves		2	2
Lead collar		2	2
X-ray Hangers		6	6

Diagnostic Kits	Mouth mirror, dental probe, college tweezers	40	40
Lead Screen		1	1
Biopsy Kit		1	1
Autoclave	Having wet and dry cycle,	2	2


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	which can achieve 135°C with minimum capacity of 20 liters		
Needle Burner with Syringe Cutter		2	2
CBCT	AERB Certified, capturing the complete image in less than 30 sec.	1(Optional)	-
Diagnostic kit		25	25
Biopsy Kit		2	2
Sailography equipment & Kit		1	1

9) PUBLIC HEALTH DENTISTRY

NAME	SPECIFICATIONS	Quantity	
		Required	Available
Dental Chairs and Units	As per specification	16	16
Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters.	2	2
Ultrasonic cleaner	Minimum capacity 13 liters with mesh bucket with digital timer	2	2
Needle burner with syringe cutter		4	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	1
Intraoral x-ray	Portable	1	1
Glass bead sterilizers		1	1
Compressor	1.25HP	1	1
Metal Cabinet	With wash basin	1	1

Portable dental chair	Suitcase unit with airrotor, micromotor, scaler and compressor 0.25HP	2	2
Stabilizer	4KV	1	1
Generator	4KV	1	1
Water tank	400ltrs	1	1

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Oxygen cylinder		1	1
Public address system		1	1
TV and video cassette player		1	1
Demonstration models		5	5



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