

## 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         | 6                  | Adequate              |
| Panoramic X-Ray with Cephalometric                     | Preferably digital   | 1         | 1          | 1                  | Adequate              |
| Intra Oral X-ray Unit                                  | 70 KV, 8 mA, high frequency preferably Digital timer   | 2         | 3          | 2                  | Adequate              |
| Pulp testers   | Digital  |           |            | 2                  | Adequate              |
| Automatic periapical X-ray Developer                   |  | 1         | 1          | 2                  | Adequate              |
| Automatic Panoramic with Cephalometric X-ray Developer |  | 1         | 1          | 1                  | Adequate              |
| X-ray viewer   | For Panoramic and Cephalometric films  | 2         | 2          | 5                  | Adequate              |
| Radiovisiography                                       | Digital Intra X-ray system with one Sensor and Software  | 1         | 1          | 1                  | Adequate              |
| General X-ray Unit                                     |  | 1         | 1          | 1                  | Adequate              |
| Ortho Pantmograph                                      | Preferably digital   | 1         | 1          | 1                  | Adequate              |
| Automatic Developers / Dark Room                       |  | 1         | 2          | 1                  | Adequate              |
| Lead aprons  |  | 2         | 2          | 4                  | Adequate              |
| Lead Gloves  |  | 1         | 1          | 2                  | Adequate              |
| X-ray Hangers  |  | 6         | 6          | 91                 | Adequate              |
| X-ray Viewers  |  | 2         | 2          | 5                  | Adequate              |
| Diagnostic Kits  | Mouth mirror, dental probe, college tweezers   | 20        | 40         | 100                | Adequate              |
| Lead Screen  |  | 1         | 1          | 5                  | Adequate              |
| Biopsy Kit   |  | 1         | 1          | 2                  | Adequate              |
| Autoclave  | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters   | 1         | 2          | 1                  | Adequate              |
| Computers  | Minimum Pentium – IV   | 1         | 1          | 2                  | Adequate              |
| Intra Oral Camera                                      | With High resolution   | 1         | 1          | 1                  | Adequate              |
| Needle Burner with Syringe Cutter                      |  | 2         | 2          | 2                  | Adequate              |



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          | 3                  | Adequate              |
| Microscopes             |  | 20        | 40         | 35                 | Adequate              |
| Microtome               |  | 1         | 1          | 2                  | Adequate              |
| Wax bath                |  | 1         | 1          | 2                  | Adequate              |
| Water bath              |  | 1         | 1          | 2                  | Adequate              |
| Knife sharpener         |  | 1         | 1          | 1                  | Adequate              |
| Hot plate               |  | 1         | 1          | 2                  | Adequate              |
| Spencer Knife           |  | 1         | 1          | 2                  | Adequate              |

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, airtor, light cure | 8         | 16         | 11                 | Adequate              |
| 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 litres with mesh bucket with digital timer   | 1         | 2          | 2                  | Adequate              |
| Needle burner with syringe cutter |  | 2         | 4          | 2                  | 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   |           |            | 1                  | Adequate              |
| 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         |            | 1                  | Adequate              |
| Autoclaves                        | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters   | 1         | 1          | 1                  | Adequate              |
| Intraoral x-ray                   | Portable, 70 KV, 8 mA  | 1         | 1          | 1                  | Adequate              |
| Glass bead sterilisers            |  | 1         | 1          | 1                  | Adequate              |
| Compressor                        | 1.25 HP  | 1         | 1          | 1                  | Adequate              |
| Metal Cabinet                     | With wash basin  | 1         | 1          | 1                  | Adequate              |
| Portable dental chair             | Suitcase unit with airtor, micromotor, scaler and compressor 0.25 HP   | 2         | 2          | 2                  | Adequate              |
| Stabiliser                        | 4 KV   | 1         | 1          | 1                  | Adequate              |
| Generator                         | 4 KV   | 1         | 1          | 1                  | Adequate              |
| Water tank                        | 400 ltrs   | 1         | 1          | 1                  | Adequate              |
| Oxygen cylinder                   |  | 1         | 1          | 1                  | Adequate              |
| Public address system             |  | 1         | 1          | 1                  | Adequate              |



|                              |  |   |   |   |          |
|------------------------------|--|---|---|---|----------|
| TV and video cassette player |  | 1 | 1 | 1 | Adequate |
| Demonstration models         |  | 1 | 1 | 1 | Adequate |

**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 contrangle 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         | 10                 | Adequate              |
| Autoclaves                                | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters   | 1         | 2          | 1                  | Adequate              |
| Ultrasonic cleaner                        | Minimum capacity 13 liters with mesh bucket with digital timer   | 1         | 2          | 1                  | Adequate              |
| Needle Burner with syringe cutter         |  | 2         | 3          | 2                  | Adequate              |
| Amalgamator                               |  | 1         | 1          | 1                  | Adequate              |
| Pulp Tester Digital                       |  | 1         | 1          | 1                  | Adequate              |
| Rubber dam kit for pedo                   |  | 3         | 5          | 3                  | Adequate              |
| Apex locator                              |  | 1         | 1          | 1                  | Adequate              |
| Endo motor                                | With torque control HPs  | 1         | 1          | 1                  | 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         | 5                  | Adequate              |
| Restorative instruments                   |  | 5         | 10         | 5                  | Adequate              |
| Extraction forceps                        |  | 5         | 10         | 5                  | Adequate              |
| Intra-oral X-ray                          |  | 1         | 1          | 1                  | Adequate              |
| Automatic Developer                       |  | 1         | 1          | 1                  | Adequate              |
| Computer                                  | Minimum Pentium – IV   | 1         | 1          | 2                  | Adequate              |
| <b>PEDO LAB</b>                           |  |           |            |                    |                       |
| 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          | 1                  | Adequate              |
| Vibrator                                  |  | 2         | 2          | 2                  | Adequate              |
| Lab micro motor                           | Heavy duty with Hps  | 2         | 3          | 2                  | Adequate              |
| Dental Lathe                              |  | 1         | 1          | 1                  | Adequate              |
| Model Trimmer                             |  | 1         | 1          | 1                  | Adequate              |



|                           |  |   |   |   |          |
|---------------------------|--|---|---|---|----------|
| 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 |

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         | 17                 | Adequate              |
| Unit mount scaler                 |   | 3         | 5          | 3                  | Adequate              |
| Autoclave                         | 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 litres with mesh bucket with digital timer  | 1         | 2          | 1                  | Adequate              |
| ORTHO LAB                         |   |           |            |                    | Adequate              |
| Plaster dispenser                 | One each for plaster and stone plaster  | 2         | 2          | 2                  | Adequate              |
| Vibrator                          |   | 2         | 2          | 2                  | Adequate              |
| Model Trimmer                     |   | 1         | 2          | 2                  | Adequate              |
| Micromotor                        | Heavy duty  | 2         | 4          | 3                  | Adequate              |
| Lathe                             |   | 1         | 2          | 2                  | Adequate              |
| X-ray viewers                     |   | 2         | 2          | 3                  | Adequate              |
| OPG cephalostat                   | If available in radiology its is adequate   | 1         | 1          | 1                  | Adequate              |
| Welders                           |   | 2         | 4          | 3                  | Adequate              |
| Blue Torch                        |   | 1         | 1          | 1                  | Adequate              |
| Base Formers                      |   | 2         | 4          | 3                  | Adequate              |
| Orthodont                         |   | 2         | 4          | 3                  | Adequate              |
| Set of pliers                     |   | 5         | 10         | 5                  | Adequate              |
| Welder with soldering attachments |   | 1         | 1          | 1                  | Adequate              |
| Hydro solder                      |   | 1         | 1          | 1                  | Adequate              |
| Typhodont articulator             | With metal teeth wax rim of Class I, II, III  | 3         | 4          | 3                  | Adequate              |
| Pressure moulding machine         |   | 1         | 1          | 1                  | Adequate              |



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         | 21                 | Adequate              |
| Scaling instrument sets              |   | 5         | 10         | 10                 | Adequate              |
| Surgical instrument sets             |   | 3         | 6          | 6                  | Adequate              |
| Autoclave                            | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters  | 2         | 3          | 4                  | Adequate              |
| Ultrasonic scaler                    | Minimum capacity 13 litres with mesh bucket   | 1         | 2          | 2                  | Adequate              |
| Electro surgical cautery             |   | 1         | 1          | 1                  | Adequate              |
| Needle burner with syringe cutter    |   | 4         | 6          | 4                  | Adequate              |
| LASER                                | Soft tissue laser   | 1         | 1          | 2                  | Adequate              |
| Surgical motor with physio dispenser |   | 1         | 1          | 1                  | Adequate              |

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         | 25                 | Adequate              |
| Rubber dam kits                   |   | 4         | 6          | 4                  | Adequate              |
| Restorative instruments kits      |   | 5         | 10         | 6                  | Adequate              |
| R.C.T. instrument kits            |   | 5         | 10         | 5                  | Adequate              |
| Autoclave                         | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters  | 2         | 3          | 2                  | Adequate              |
| Ultrasonic cleaner                | Minimum capacity 13 litres with mesh bucket   | 1         | 2          | 1                  | Adequate              |
| Needle Burner with Syringe Cutter |   | 3         | 4          | 3                  | Adequate              |
| Amalgamator                       | With auto proportion, auto dispenser  | 2         | 3          | 2                  | Adequate              |
| Rubber dam kits                   |   | 4         | 6          | 4                  | Adequate              |
| Pulp Tester Digital               |   | 2         | 4          | 2                  | Adequate              |
| Apex locator                      |   | 1         | 2          | 1                  | Adequate              |
| Glass bead                        |   | 4         | 6          | 4                  | Adequate              |



|                         |  |    |    |    |          |
|-------------------------|--|----|----|----|----------|
| Sterilizers             |  |    |    |    |          |
| Plaster dispenser       |  | 2  | 2  | 2  | Adequate |
| Vibrator                |  | 1  | 2  | 1  | Adequate |
| Ceramic Unit            |  | 1  | 1  | 1  | Adequate |
| Casting machine         |  | 1  | 1  | 1  | Adequate |
| Intra-oral X-ray Unit   | Proper radiation safety  | 1  | 1  | 1  | Adequate |
| Automatic Developer     |  | 1  | 1  | 1  | Adequate |
| Radiovisiography        | RVG with Computer  | 1  | 1  | 1  | Adequate |
| Endo motor              | With torque control Hps  | 1  | 1  | 1  | Adequate |
| Bleaching Unit          |  | 1  | 1  | 1  | Adequate |
| Magnification loops     |  | 1  | 2  | 1  | Adequate |
| Injectable gutta percha |  | 1  | 2  | 1  | Adequate |
| PHANTOM LAB UNIT        | Phantom Table fitted with Halogen Operating Light<br>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 ivorine teeth, preferably soft gingival, dental operator's stool ( <u>not to use extracted or cadaver teeth</u> ). | 30 | 60 | 30 | 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          | 2                  | Adequate              |
| Model Trimmer        | Carborandum disc                         | 1         | 1          | 1                  | Adequate              |
|                      | Diamond disc                             | 1         | 1          | 1                  | Adequate              |
| Lathe                | Heavy Duty                               | 1         | 2          | 1                  | Adequate              |
| Lab Micromotor       | With heavy duty handpiece                | 2         | 3          | 2                  | Adequate              |
| Ultrasonic cleaner   | Minimum capacity 5 litres                | 1         | 1          | 1                  | Adequate              |
| Spindle Grinder      |  | 1         | 1          | 1                  | Adequate              |
| Vibrator             |  | 1         | 2          | 1                  | Adequate              |
| Burnout furnace      |  | 1         | 1          | 1                  | Adequate              |
| Porcelain furnace    |  | 1         | 1          | 1                  | Adequate              |
| Sandblasting Machine |  | 1         | 1          | 1                  | Adequate              |
| Lab Airtor           |  | 1         | 1          | 1                  | Adequate              |
| Pindex System        |  | 1         | 1          | 1                  | Adequate              |
| Circular saw         |  | 1         | 1          | 1                  | Adequate              |
| Vacuum mixer         |  | 1         | 1          | 1                  | Adequate              |
| Pneumatic chisel     |  | 1         | 1          | 1                  | Adequate              |
| Casting machine      | Motor cast / induction casting preferred | 1         | 1          | 1                  | Adequate              |



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         | 15                 | Adequate              |
| Autoclave                         | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters   | 2         | 2          | 06                 | Adequate              |
| Ultrasonic cleaner                | Minimum capacity 13 litres with mesh bucket  | 1         | 2          | 02                 | Adequate              |
| Needle Burner with Syringe Cutter |  | 4         | 6          | 07                 | Adequate              |
| Extraction forceps sets           | Complete set   | 10        | 20         | 20                 | Adequate              |
| Dental elevators                  | Complete set   | 5         | 10         | 11                 | Adequate              |
| Minor Oral Surgery kits           |  | 3         | 6          | 03                 | Adequate              |
| Emergency drugs tray              |  | 1         | 1          | 03                 | Adequate              |
| Oxygen cylinder with mask         |  | 1         | 1          | 03                 | Adequate              |
| X-ray viewers                     |  | 2         | 2          | 04                 | Adequate              |
| Computer                          | Minimum Pentium – IV   | 1         | 1          | 02                 | Adequate              |

B) 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          | 06                 | Adequate              |

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         | 17                 | Adequate              |
| Semi-adjustable articulator    | With face bow   | 2         | 2          | 2                  | Adequate              |
| Extra oral / intra oral tracer |   | 2         | 2          | 2                  | Adequate              |
| Dewaxing unit                  |   | 1         | 2          | 1                  | Adequate              |

|                                     |  |    |     |    |          |
|-------------------------------------|--|----|-----|----|----------|
| Curing unit                         |  | 1  | 2   | 1  | Adequate |
| Dental casting machine              |  | 1  | 1   | 1  | Adequate |
| Wax burnout furnace                 |  | 1  | 1   | 1  | Adequate |
| Pre heating furnace                 |  | 1  | 1   | 1  | Adequate |
| Surveying unit                      |  | 1  | 2   | 1  | Adequate |
| Heavy duty hand piece               | Lab micromotors  | 3  | 4   | 3  | Adequate |
| Autoclave                           | Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters | 1  | 2   | 1  | Adequate |
| Needle Burner with Syringe Cutter   |  | 1  | 2   | 1  | Adequate |
| Plaster dispenser                   | One each for plaster and stone plaster   | 2  | 2   | 2  | Adequate |
| Model Trimmer with Carborandum disc |  | 1  | 1   | 1  | Adequate |
| Model Trimmer with diamond disc     |  | 1  | 2   | 1  | Adequate |
| Acryliser                           |  | 2  | 3   | 2  | Adequate |
| Lathe                               |  | 1  | 2   | 1  | Adequate |
| Flask press                         |  | 4  | 4   | 4  | Adequate |
| Deflasking unit                     |  | 4  | 4   | 4  | Adequate |
| Dewaxing unit                       |  | 2  | 3   | 2  | Adequate |
| Hydraulic Press                     |  | 2  | 3   | 2  | Adequate |
| Mechanical Press                    |  | 1  | 2   | 1  | Adequate |
| Vacuum mixing machine               |  | 1  | 1   | 1  | Adequate |
| Lab Micro motor                     | With heavy duty handpiece  | 3  | 4   | 3  | Adequate |
| Curing pressure pot                 |  | 1  | 1   | 1  | Adequate |
| Porcelain furnace                   |  | 1  | 2   | 1  | Adequate |
| Vibrator                            |  | 1  | 2   | 1  | Adequate |
| Sandblasting unit                   |  | 2  | 2   | 2  | Adequate |
| Ultrasonic cleaner                  |  | 1  | 2   | 1  | Adequate |
| Model Trimmer                       |  | 2  | 4   | 2  | Adequate |
| Hot water sterilizer                |  | 1  | 2   | 1  | Adequate |
| Geyser                              | Compound bath  | 1  | 2   | 1  | Adequate |
| H.P. grinder with suction           |  | 2  | 3   | 2  | Adequate |
| Heavy duty lathe                    |  | 2  | 2   | 2  | Adequate |
| Phantom heads                       |  | 50 | 50  | 50 | Adequate |
| Pre-clinical working tables         | Gas connection & Bunsen burner   | 50 | 100 | 50 | Adequate |



### 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                  | Adequate              |
| Duplicator   |  | 1         | 1          | 1                  | Adequate              |
| Pindex System  |  | 1         | 1          | 1                  | Adequate              |
| Circular saw   |  | 1         | 1          | 1                  | Adequate              |
| Burnout furnace  |  | 1         | 1          | 1                  | Adequate              |
| Sandblasting Machine   | With two containers  | 1         | 1          | 1                  | Adequate              |
| Electro polisher   |  | 1         | 1          | 1                  | Adequate              |
| Model Trimmer with Carborandum disc  |  | 1         | 1          | 1                  | Adequate              |
| Model Trimmer with diamond disc  |  | 1         | 1          | 1                  | Adequate              |
| Induction casting machine  |  | 1         | 1          | 1                  | Adequate              |
| Programmable porcelain furnace with vacuum pump with instrument kit and material kit |  | 1         | 1          | 1                  | Adequate              |
| Spot welder with soldering attachment of cable                                       |  | 1         | 1          | 1                  | Adequate              |
| Vacuum mixing machine  |  | 1         | 1          | 1                  | Adequate              |
| Steam Cleaner  |  | 1         | 1          | 1                  | Adequate              |
| Spindle Grinder 24000 rpm with vacuum suction  |  | 1         | 1          | 1                  | Adequate              |
| Wax heater   |  | 1         | 1          | 1                  | Adequate              |
| Wax carver   |  | 1         | 1          | 1                  | Adequate              |
| Curing pressure pot  |  | 1         | 1          | 1                  | Adequate              |
| Milling machine  |  | 1         | 1          | 1                  | Adequate              |
| Heavy duty lathe with suction  |  | 1         | 1          | 1                  | Adequate              |
| Preheating furnace   |  | 1         | 1          | 1                  | Adequate              |
| Palatal trimmer  |  | 1         | 1          | 1                  | Adequate              |
| Ultrasonic cleaner   | 5 liters capacity  | 1         | 1          | 1                  | Adequate              |
| Composite curing unit  |  | 1         | 1          | 1                  | Adequate              |
| Micro surveyor   |  | 1         | 1          | 1                  | Adequate              |
| 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<br>10  | 60<br>20   | 30<br>10           | Adequate              |
| Plaster room for pre-clinical work   |  |           |            |                    | Adequate              |
| Plaster dispenser  | One each for plaster and stone   | 2         | 2          | 2                  | Adequate              |
| Vibrator   |  | 2         | 2          | 2                  | Adequate              |
| Lathe  |  | 2         | 2          | 2                  | Adequate              |
| Model Trimmer  |  | 1         | 1          | 1                  | Adequate              |
| Carborandum Disc   |  | 1         | 1          | 1                  | Adequate              |
| Diamond disc   |  | 1         | 1          | 1                  | Adequate              |



## EQUIPMENT REQUIREMENTS

As per MDS Course Regulations, 2017

Department: **Prosthodontics and Crown & Bridge**

| Name  | Specification  | Quantity   |    | Available Quantity | Adequate / Inadequate |
|---|--|--|----|--------------------|-----------------------|
| 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 |    | 20                 | Adequate              |
|   |  | 1 Unit   |    | 12                 | Adequate              |
| Articulators – semi adjustable/ adjustable with face bow            |  | 6  | 12 | 6                  | Adequate              |
| Micromotor – (Lab Type can also be attached 'fixed) to wall         |  | 2  | 6  | 2                  | Adequate              |
| Ultrasonic scaler   |  | 2  | 2  | 2                  | Adequate              |
| Light cures   |  | 2  | 2  | 1                  | Adequate              |
| Hot air oven  |  | 1  | 1  | 2                  | Adequate              |
| Autoclave   |  | 2  | 2  | 2                  | Adequate              |
| Surveyor  |  | 2  | 2  | 1                  | Adequate              |
| Refrigerator  |  | 1  | 1  | 2                  | Adequate              |
| X-ray viewer  |  | 1  | 2  | 3                  | Adequate              |
| Pneumatic, Crown bridge remover                                     |  | 2  | 3  | 2                  | Adequate              |
| Needle destroyer  |  | 1  | 2  | 1                  | Adequate              |
| Intra oral camera   |  | 1  | 1  | 1                  | Adequate              |
| Digital SLR camera  |  | 1  | 1  | 1                  | Adequate              |
| Computer with internet connection with attached printer and scanner |  | 1  | 1  | 1                  | Adequate              |
| LCD projector   |  | 1  | 1  | 1                  | Adequate              |
| <b>Clinical Lab for Prosthetics</b>                                 |  |  |    | 2                  |                       |
| Plaster dispenser   |  | 2  | 2  | 2                  | Adequate              |
| Model trimmer with carborandum Disc                                 |  | 1  | 2  | 2                  | Adequate              |
| Model trimmer with diamond disc                                     |  | 1  | 2  | 3                  | Adequate              |
| High speed lathe  |  | 2  | 3  | 4                  | Adequate              |
| Vibrator  |  | 2  | 4  | 2                  | Adequate              |
| Acrylizer   |  | 1  | 2  | 2                  | Adequate              |
| Dewaxing unit   |  | 1  | 2  | 2                  | Adequate              |
| Hydraulic press   |  | 1  | 2  | 1                  | Adequate              |
| Mechanical press  |  | 1  | 1  | 1                  | Adequate              |
| Vacuum mixing machine   |  | 1  | 1  | 3                  | Adequate              |
| Micro motor lab type  |  | 2  | 3  | 1                  | Adequate              |
| Curing pressure pot   |  | 1  | 1  | 1                  | Adequate              |
| Pressure molding machine  |  | 1  | 1  | 1                  | Adequate              |
| <b>Chrome – Cobalt Lab Equipment</b>                                |  |  |    |                    |                       |
| Duplicator  |  | 1  | 1  | 1                  | Adequate              |
| Pindex system   |  | 1  | 1  | 1                  | Adequate              |
| Burn-out furnace  |  | 1  | 1  | 1                  | Adequate              |
| Welder  |  | 1  | 1  | 1                  | Adequate              |
| Sandblaster   | Micro and macro  | 1  | 1  | 1                  | Adequate              |
| Electro – polisher  |  | 1  | 1  | 1                  | Adequate              |
| Model trimmer with carborandum disc                                 |  | 1  | 1  | 12                 | Adequate              |



|   |                   |    |    |    |          |
|---|-------------------|----|----|----|----------|
| Model trimmer with diamond disc   |                   | 1  | 1  | 1  | Adequate |
| Model trimmer with double disc (one Carborandum and one diamond disc)                                 |                   | 1  | 1  | 1  | Adequate |
| Casting machine, motor cast with the safety door closure, gas blow torch with regulator               |                   | 1  | 1  | 1  | Adequate |
| Dewaxing furnace  |                   | 1  | 1  | 1  | Adequate |
| Induction casting machine with vacuum pump, capable of casting titanium chrome cobalt precision metal |                   | 1  | 1  | 1  | Adequate |
| Spot welder with soldering, attachment of cable   |                   | 1  | 1  | 1  | Adequate |
| Steam cleaner   |                   | 1  | 1  | 1  | Adequate |
| Vacuum mixing machine   |                   | 1  | 1  | 1  | Adequate |
| Spindle grinder 24,000 RPM with vacuum suction  |                   | 1  | 1  | 1  | Adequate |
| Wax heater  |                   | 2  | 3  | 3  | Adequate |
| Wax carvers (Full PKT Set)  |                   | 2  | 3  | 3  | Adequate |
| Milling machine   |                   | 1  | 1  | 2  | Adequate |
| Stereo microscope   |                   | 1  | 1  | 1  | Adequate |
| Magnifying work lamp  |                   | 1  | 1  | 1  | Adequate |
| Heavy duty lathe with suction   |                   | 1  | 1  | 1  | Adequate |
| Preheating furnace  |                   | 1  | 1  | 1  | Adequate |
| Dry model trimmer   |                   | 1  | 1  | 1  | Adequate |
| Die cutting machine   |                   | 1  | 2  | 2  | Adequate |
| Ultrasonic cleaner  |                   | 1  | 1  | 1  | Adequate |
| Composite curing unit   |                   | 1  | 1  | 1  | Adequate |
| <b>Ceramic Lab Equipment</b>  |                   |    |    |    |          |
| Fully programmable porcelain furnace with vacuum pump   |                   | 1  | 1  | 2  | Adequate |
| Ceramic kit (instruments)   |                   | 3  | 3  | 3  | Adequate |
| Ceramic materials (kit)   |                   | 1  | 1  | 1  | Adequate |
| Ceramic polishing kit   |                   | 2  | 2  | 2  | Adequate |
| <b>Implant Equipment</b>  |                   |    |    |    |          |
| Electrical dental chair and unit  |                   | 1  | 1  | 1  | Adequate |
| Physio dispenser  |                   | 1  | 1  | 1  | Adequate |
| Implant kit   | Minimum 2 systems | 2  | 2  | 2  | Adequate |
| Implants  |                   | 10 | 10 | 10 | Adequate |
| Prosthetic components   |                   | 10 | 10 | 10 | Adequate |
| Unit mount light cure   |                   | 1  | 2  | 2  | Adequate |
| X-ray viewer  |                   | 1  | 2  | 2  | Adequate |
| Needle destroyer  |                   | 1  | 2  | 2  | Adequate |
| Ultrasonic cleaner capacity 3.5 lts   |                   | 1  | 1  | 1  | Adequate |
| Autoclave programmable for all recommended cycles   |                   | 1  | 2  | 2  | Adequate |
| X-ray machine with RVG  |                   | 1  | 1  | 1  | Adequate |
| Refrigerator  |                   | 1  | 1  | 2  | Adequate |
| Surgical kit/prosthetic kit   |                   | 2  | 2  | 2  | Adequate |
| Educating models  |                   | 1  | 1  | 1  | Adequate |
| Implant removing instruments  |                   | 1  | 1  | 1  | Adequate |



Department: **Periodontology**

| 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 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 |                    |                       |
| Auto clave (fully automatic) front loading                               |   | 1   | 2       | 2                  | Adequate              |
| Steel bin  |   | 4   | 6       | 6                  | Adequate              |
| Airoter hand pieces  |   | 2   | 2       | 4                  | Adequate              |
| UV chamber   |   | 1   | 1       | 2                  | Adequate              |
| Formalin chamber   |   | 1   | 1       | 1                  | Adequate              |
| W.H.O probe  |   | 2   | 2       | 2                  | Adequate              |
| Nabers probe   |   | 2   | 2       | 2                  | Adequate              |
| Williams probe   |   | 2   | 2       | 2                  | Adequate              |
| UNC-15 probe   |   | 4   | 4       | 4                  | Adequate              |
| Gold Man fox probe   |   | 1   | 1       | 1                  | Adequate              |
| Pressure sensitive probe   |   | 1   | 1       | 1                  | Adequate              |
| Marquis color coded probe  |   | 1   | 1       | 1                  | Adequate              |
| Supra gingival scalers   | set   | 2   | 2       | 4                  | Adequate              |
| Sub gingival scaler  | set   | 2   | 2       | 4                  | Adequate              |
| Arkansas sharpening stone  |   | 1   | 1       | 1                  | Adequate              |
| <b>Surgical Instruments</b>  |   |   |         |                    |                       |
| Routine surgical instrument kit (Benquis periosteal elevator, periotome) | set   | 2   | 3       | 2                  | Adequate              |
| Surgery trolleys   |   | 6   | 6       | 6                  | Adequate              |
| X ray viewer   |   | 1   | 2       | 3                  | Adequate              |
| Surgical cassette with sterilisation pouches                             |   | 4   | 6       | 4                  | Adequate              |
| Electro surgery unit   |   | 1   | 1       | 1                  | Adequate              |
| <b>Special Surgical Instruments</b>                                      |   |   |         |                    |                       |
| Kirkland's knife   | set   | 1   | 1       | 10                 | Adequate              |
| Orban's knife  | set   | 1   | 1       | 10                 | Adequate              |
| Paquette blade handle  |   | 1   | 1       | 1                  | Adequate              |
| Krane kaplan pocket marker   | set   | 1   | 1       | 10                 | Adequate              |
| Mc Calls universal curettes  | set   | 1   | 1       | 1                  | Adequate              |
| Gracey's curettes (No.1-18)  | set   | 2   | 2       | 12                 | Adequate              |
| Mini five curettes   | set   | 1   | 1       | 1                  | Adequate              |
| Cumine scalar  |   | 1   | 1       | 20                 | Adequate              |
| Mallet   |   | 1   | 1       | 2                  | Adequate              |
| Chisel   |   | 1   | 1       | 2                  | Adequate              |
| Oschenbein chisel  | straight, curved  | 1   | 1       | 1                  | Adequate              |
| Schluger bone file   |   | 1   | 1       | 1                  | Adequate              |
| Bone fixation screw kit  |   | 1   | 1       | 1                  | Adequate              |
| Bone scrapper  |   | 1   | 1       | 1                  | Adequate              |



|   |                                |        |       |    |          |
|---|--------------------------------|--------|-------|----|----------|
| Bone trephines for harvesting autografts                            | 1 set                          | 1      | 1     | 1  | Adequate |
| Bone regenerative materials   | Bone graft and GTR membranes   | 5      | 5     | 5  | Adequate |
| Local drug delivery systems   | At least two different agents  | 1 each | 1     | 1  | Adequate |
| Root conditioning agent   | At least two different agents  | 2      | 2     | 2  | Adequate |
| Micro needle holder   |                                | 1      | 1     | 1  | Adequate |
| Micro scissors  |                                | 1      | 1     | 1  | Adequate |
| Magnifying loop (2.5 – 3.5)   |                                | 1      | 2     | 1  | Adequate |
| Operating microscope  | optional                       | 1      | 1     |    | Adequate |
| 3rd generation digital probe  | optional                       | 1      | 1     |    | Adequate |
| Bone expander and bone crester                                      | optional                       | 1      | 1     | 1  | Adequate |
| Distraction osteogenesis kit  | optional                       | 1      | 1     |    | Adequate |
| Bone mill   | optional                       | 1      | 1     | 1  | Adequate |
| Bone graft / membrane placement spoon                               |                                | 1      | 1     | 1  | Adequate |
| Bone condenser  |                                | 1      | 1     | 1  | Adequate |
| Peizo-surgery unit  | optional                       | 1      | 1     | 1  | Adequate |
| entrifuge for PRP/PRF preparation                                   | optional                       | 1      | 1     | 1  | Adequate |
| Soft tissue laser (8 watt)  |                                | 1      | 1     | 1  | Adequate |
| Osteotome   | set optional                   | 1      | 1     | 1  | Adequate |
| <b>Miscellaneous Instruments</b>                                    |                                |        |       |    | Adequate |
| Composite gun with material kit                                     |                                | 1      | 1     | 1  | Adequate |
| Splinting kit with material   |                                | 2      | 3     | 2  | Adequate |
| Composite finishing kit   |                                | 1      | 1     | 1  | Adequate |
| Glass Ionomer cement  |                                | 1      | 1     | 1  | Adequate |
| Digital camera  |                                | 1      | 1     | 1  | Adequate |
| Intra Oral camera   |                                | 1      | 1     | 1  | Adequate |
| Ultrasonic cleaner  |                                | 1      | 1     | 1  | Adequate |
| Emergency kit   |                                | 1      | 1     | 1  | Adequate |
| Refrigerator  |                                | 1      | 1     | 2  | Adequate |
| X-ray viewer  |                                | 2      | 2     | 2  | Adequate |
| LCD projector   |                                | 1      | 1     | 1  | Adequate |
| Computer with internet connection with attached printer and scanner |                                | 1      | 1     | 1  | Adequate |
| Implant Equipment   |                                |        |       |    | Adequate |
| Electrical dental chair and unit                                    |                                | 1      | 1     | 1  | Adequate |
| Physio dispenser  |                                | 1      | 1     | 1  | Adequate |
| Implant kit   | At least two different systems | 2      | 2     | 2  | Adequate |
| Implants  |                                | 10     | 10    | 10 | Adequate |
| Implant maintenance kit (plastic instruments)                       |                                | 1 set  | 1 set | 1  | Adequate |
| Implant guide   |                                | 1      | 1     |    | Adequate |
| X-ray viewer  |                                | 1      | 2     | 1  | Adequate |
| Needle destroyer  |                                | 1      | 2     | 1  | Adequate |
| Ultrasonic cleaner capacity 3.5 lts                                 |                                | 1      | 1     | 1  | Adequate |
| Autoclave programmable for all recommended cycles                   |                                | 1      | 1     | 1  | Adequate |
| RVG with x-ray machine  |                                | 1      | 1     | 1  | Adequate |
| Refrigerator  |                                | 1      | 1     | 1  | Adequate |
| Surgical kit  |                                | 2      | 2     | 1  | Adequate |
| Sinus lift kit  |                                | 1      | 1     | 1  | Adequate |
| Educating models  |                                | 1      | 1     | 1  | Adequate |
| Implant removing kit  |                                | 1      | 1     | 1  | Adequate |



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 |         |                    |                       |
|   |  | 1 Unit  | 2 Units |                    |                       |
| Autoclave   | Front loading  | 2   | 3       | 8                  | Adequate              |
| Fumigators  |  | 1   | 1       | 1                  | Adequate              |
| Oscillating saw   | With all hand pieces   | 1   | 1       | 1                  | Adequate              |
| <b>Surgical Instruments</b>   |  |   |         |                    |                       |
| General surgery kit including tracheotomy kit                               |  | 2   | 2       | 2                  | Adequate              |
| Minor oral surgery kit  |  | 5   | 10      | 5                  | Adequate              |
| Osteotomy kit   |  | 1   | 1       | 1                  | Adequate              |
| Cleft surgery kit   |  | 1   | 1       | 1                  | Adequate              |
| Bone grafting kit   |  | 1   | 1       | 1                  | Adequate              |
| Emergency kit   |  | 1   | 1       | 1                  | Adequate              |
| Trauma set including bone   |  | 2   | 2       | 2                  | Adequate              |
| Plating kit   |  | 1   | 1       | 1                  | Adequate              |
| Implantology kit  | Minimum 2  | 2   | 2       | 2                  | Adequate              |
| With implants   | systems  | 10  | 10      | 48                 | Adequate              |
| Distraction osteogenesis kit  |  | 1   | 1       | 1                  | Adequate              |
| Peizo surgical unit   |  | 1   | 1       | 1                  | Adequate              |
| Magnifying loops  |  | 1   | 1       | 1                  | Adequate              |
| Operating microscope and Microsurgery kit                                   | desirable  | 1   | 1       | 1                  | Adequate              |
| Dermatomes  |  | 1   | 1       | 1                  | Adequate              |
| Needle destroyer  |  | 2   | 3       | 4                  | Adequate              |
| Ultrasonic Cleaner capacity 3.5 lts   |  | 1   | 1       | 2                  | Adequate              |
| Formalin chamber  |  | 1   | 1       | 1                  | Adequate              |
| Pulse oxymeter  |  | 1   | 1       | 4                  | Adequate              |
| Ventilator  |  | 1   | 1       | 1                  | Adequate              |
| Major operation theatre with all facilities                                 |  | 1   | 1       | 1                  | Adequate              |
| Recovery and Intensive Care Unit with all necessary life support equipments |  | 2 beds  | 2 beds  | 2 beds             | Adequate              |
| Fibrooptic light  |  | 1   | 1       | 1                  | Adequate              |
| Inpatient beds  |  | 20  | 20      | 20                 | Adequate              |
| Fiber optic laryngoscope  |  | 1   | 1       | 1                  | Adequate              |
| Computer with internet connection with attached printer and scanner         |  | 1   | 1       | 2                  | Adequate              |
| LCD projector   |  | 1   | 1       | 1                  | Adequate              |
| Refrigerator  |  | 1   | 1       | 2                  | Adequate              |



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 |   | 12                 | Adequate              |
|   |  | 1 Unit  |   |                    |                       |
| ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment  |  | 2   | 2 | 2                  | Adequate              |
| Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems |  | 3   | 3 | 3                  | Adequate              |
| Rubber dam kit  |  | 1 per chair   | 9 | 9                  | Adequate              |
| Autoclaves for bulk instrument sterilization vacuum (Front loading)   |  | 2   | 2 | 2                  | Adequate              |
| Autoclaves for hand piece sterilization   |  | 1   | 1 | 1                  | Adequate              |
| Apex locators one for every two chairs  |  | 2   | 2 | 2                  | Adequate              |
| Pulp tester   |  | 2   | 2 | 2                  | Adequate              |
| Equipments for injectable thermoplasticized gutta percha  |  | 1   | 1 | 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   | 1 | 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 | 1                  | Adequate              |
| Conventional VLC units one for every two chairs   |  | 2   | 2 | 2                  | Adequate              |
| Needle destroyer  |  | 2   | 2 | 2                  | Adequate              |
| Magnifying loupes one for students and one for faculty  |  | 1   | 2 | 2                  | Adequate              |
| LCD projector   |  | 1   | 1 | 1                  | Adequate              |
| Composite kits with different shades and polishing kits   |  | 2   | 2 | 2                  | Adequate              |
| Ceramic finishing kits, metal finishing kits  | In ceramic labs  | 2   | 2 | 2                  | Adequate              |
| Amalgam finishing kits  |  | 2   | 2 | 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   |  |   |   |   | Adequate |
| 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)  |  | 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 |
|---|---|--|---------|--------------------|-----------------------|
| 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 |         |                    |                       |
|   |   | 1 Unit   | 2 Units |                    |                       |
| Vacuum /pressure moulding unit                                      |   | 1  | 1       | 1                  | Adequate              |
| Hydrogen soldering unit   |   | 1  | 1       | 1                  | Adequate              |
| Lab micromotor  |   | 3  | 5       | 3                  | Adequate              |
| Spot welders  |   | 3  | 5       | 3                  | Adequate              |
| Model trimmer (Double disc)   |   | 2  | 3       | 2                  | Adequate              |
| Light curing unit   |   | 2  | 2       | 2                  | Adequate              |
| High intensity light curing unit                                    |   | 1  | 2       | 2                  | Adequate              |
| Polishing lathes  |   | 2  | 3       | 2                  | Adequate              |
| Tracing tables  |   | 3  | 5       | 3                  | Adequate              |
| SLR digital camera  |   | 1  | 1       | 1                  | Adequate              |
| Scanner with transparency adapter                                   |   | 1  | 1       | 1                  | Adequate              |
| X-ray viewer  |   | 3  | 4       | 3                  | Adequate              |
| LCD projector   |   | 1  | 1       | 1                  | Adequate              |
| Autoclaves for bulk instrument Sterilization vacuum (Front loading) |   | 1  | 1       | 2                  | Adequate              |
| Needle destroyer  |   | 1  | 1       | 1                  | Adequate              |
| Dry heat sterilizer   |   | 1  | 1       | 2                  | Adequate              |
| Ultrasonic scaler   |   | 1  | 1       | 3                  | Adequate              |
| Sets of Orthodontic pliers  |   | 3  | 3       | 5                  | Adequate              |
| Orthodontic impression trays  |   | 3  | 5       | 3                  | Adequate              |
| Ultrasonic cleaner capacity 3.5 lts                                 |   | 1  | 1       | 1                  | Adequate              |
| Electropolisher   |   | 1  | 1       | 1                  | Adequate              |
| Typodonts with full teeth set                                       |   | 3  | 3       | 3                  | Adequate              |
| Anatomical articulator with face bow attachments                    |   | 1  | 1       | 1                  | Adequate              |
| Free plane articulators   |   | 1  | 1       | 1                  | Adequate              |
| Hinge articulators  |   | 4  | 4       | 4                  | Adequate              |
| Computer software for cephalometrics                                |   | 1  | 1       | 1                  | Adequate              |
| Computer with internet connection with attached printer and scanner |   | 1  | 1       | 2                  | Adequate              |
| Refrigerator  |   | 1  | 1       | 2                  | Adequate              |



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 shadow less lamp, spittoon, 3 way syringe, instrument tray and suction | 3                                 | 6                                 | 3                  | Adequate              |
| Adequate laboratory glassware's as required for processing of biopsy specimens and staining.                    | Reasonable quantity should be made available  |                                   |                                   | 24                 | Adequate              |
| Adequate tissue capsules / tissue embedding cassettes   | Reasonable quantity should be made available  |                                   |                                   | 24                 | Adequate              |
| Paraffin wax bath   | thermostatically controlled   | 1                                 | 1                                 | 2                  | Adequate              |
| Leuckhart pieces  |   | 10                                | 10                                | 24                 | Adequate              |
| Block holders   |   | 25                                | 25                                | 40                 | Adequate              |
| Microtome   | Manual  | 1                                 | 1                                 | 01                 | Adequate              |
| Microtome   | semi – automated  | 1                                 | 1                                 | 01                 | Adequate              |
| Tissue floatation water bath  | thermostatically controlled   | 1                                 | 1                                 | 02                 | Adequate              |
| Slide warming table   |   | 1                                 | 1                                 | 02                 | Adequate              |
| Steel slide racks for staining  |   | 5                                 | 5                                 | 05                 | Adequate              |
| Diamond glass marker  |   | 2                                 | 2                                 | 02                 | Adequate              |
| Research microscope with phase contrast, dark field, polarization, image analyzer, photomicrography attachments |   | 1                                 | 1                                 | 01                 | Adequate              |
| Multi head microscope   | Penta headed  | 1                                 | 1                                 | 01                 | Adequate              |
| Binocular compound microscope   |   | 2 for faculty and one per student | 4 for faculty and one per student | 11                 | Adequate              |
| Stereo microscope   |   | 1                                 | 1                                 | 01                 | Adequate              |
| Aluminum slide trays  |   | 5                                 | 5                                 | 05                 | Adequate              |
| Wooden / plastic slide boxes  |   | 5                                 | 5                                 | 05                 | Adequate              |
| Wax block storing cabinet   |   | 5,000 capacity                    | 10,000 capacity                   | 01                 | Adequate              |
| Slide storing cabinet   |   | 5,000 capacity                    | 10,000 capacity                   | 02                 | Adequate              |
| Refrigerator  |   | 1                                 | 1                                 | 01                 | Adequate              |
| Pipettes  |   | 5                                 | 5                                 | 12                 | Adequate              |
| Surgical kit for biopsy   |   | 3                                 | 6                                 | 03                 | Adequate              |
| Immuno histo chemistry lab  |   | 1                                 | 1                                 | 01                 | Adequate              |
| Computer with Internet Connection with attached printer and scanner   |   | 1                                 | 1                                 | 01                 | Adequate              |
| LCD projector   |   | 1                                 | 1                                 | 02                 | Adequate              |
| <b>Desirable Equipment</b>  |   |                                   |                                   |                    |                       |
| Cryostat  |   | 1                                 | 1                                 | -                  | Adequate              |
| Fluorescent microscope  |   | 1                                 | 1                                 | 01                 | Adequate              |
| Hard tissue microtome   |   | 1                                 | 1                                 | -                  | Adequate              |
| Tissue storing cabinet (frozen)   |   | 1                                 | 1                                 | -                  | Adequate              |
| Microwave   |   | 1                                 | 1                                 | 3                  | Adequate              |



Department: **Public Health Dentistry**

| Name   | Specification  | Quantity   |         | Available Quantity | Adequate / Inadequate |
|--|--|--|---------|--------------------|-----------------------|
| 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 and unit per post-graduate student and one chair with unit for the faculty |         |                    |                       |
|  |  | 1 Unit   | 2 Units |                    |                       |
| Extraction forceps   |  | 4 sets   | 6 sets  | NA                 | NA                    |
| Filling instruments  |  | 4 sets   | 6 sets  | NA                 | NA                    |
| Scaling instruments  | Supra gingival scaling   | 4 sets   | 6 sets  | NA                 | NA                    |
| Amalgamator  |  | 1  | 1       | NA                 | NA                    |
| Pulp tester  |  | 1  | 1       | NA                 | NA                    |
| Autoclave  |  | 1  | 1       | NA                 | NA                    |
| X-ray viewer   |  | 1  | 1       | NA                 | NA                    |
| Instrument cabinet   |  | 1  | 1       | NA                 | NA                    |
| LCD or DLP multimedia projector  |  | 1  | 1       | NA                 | NA                    |
| Computer with internet connection with attached printer and scanner  |  | 1  | 1       | NA                 | NA                    |
| <b>For peripheral dental care or field programme</b>   |  |  |         |                    | NA                    |
| Staff bus  |  | 1  | 1       |                    |                       |
| Mobile dental clinic fitted with at least 2 dental chairs with complete dental unit with fire extinguisher |  | 1  | 1       | NA                 | NA                    |
| Ultrasonic scaler,   |  | 1  | 2       | NA                 | NA                    |
| Ultrasonic cleaner capacity 3.5 lts  |  | 1  | 1       | NA                 | NA                    |
| Compressor   | One with chair   |  |         | NA                 | NA                    |
| Generator  |  | 1  | 1       | NA                 | NA                    |
| Public address system, audio-visual aids   |  | 1  | 1       | NA                 | NA                    |
| Television   |  | 1  | 1       | NA                 | NA                    |
| Digital Versatile Disc Player  |  | 1  | 1       | NA                 | NA                    |
| Instrument cabinet, emergency medicine kits, Blood pressure apparatus                                      |  | 1  | 1       | NA                 | NA                    |
| Portable oxygen cylinder   |  | 1  | 1       | NA                 | NA                    |
| Portable chair   |  | 1  | 1       | NA                 | NA                    |
| Refrigerator   |  | 1  | 1       | NA                 | NA                    |




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<br>(40% dental chairs shall be pedo chairs) | One chair and unit per post-graduate student and Two chairs with unit for the faculty |         |                    |                       |
|   |  | 1 Unit  | 2 Units |                    |                       |
| Pedo extraction forceps sets  |  | 3   | 4       | NA                 | NA                    |
| Autoclaves for bulk instrument sterilization vacuum (Front loading) |  | 1   | 2       | NA                 | NA                    |
| RVG with intra oral x-ray unit                                      |  | 1   | 1       | NA                 | NA                    |
| Automatic developer   |  | 1   | 1       | NA                 | NA                    |
| Pulp tester   |  | 2   | 3       | NA                 | NA                    |
| Apex locator  |  | 1   | 1       | NA                 | NA                    |
| Rubber dam kit  | One set per student  | 1   | 1       | NA                 | NA                    |
| Injectable GP condenser   |  | 1   | 1       | NA                 | NA                    |
| Endodontic pressure syringe   |  | 1   | 1       | NA                 | NA                    |
| Glass bead steriliser   |  | 2   | 4       | NA                 | NA                    |
| Spot welder   |  | 2   | 3       | NA                 | NA                    |
| Ultrasonic scalers  |  | 2   | 4       | NA                 | NA                    |
| Needle destroyer  |  | 1   | 1       | NA                 | NA                    |
| Formalin chamber  |  | 1   | 1       | NA                 | NA                    |
| Ultrasonic cleaner capacity 3.5 lts                                 |  | 1   | 1       | NA                 | NA                    |
| X-ray viewer  |  | 2   | 3       | NA                 | NA                    |
| Amalgamator   |  | 1   | 2       | NA                 | NA                    |
| Plaster dispenser   |  | 2   | 2       | NA                 | NA                    |
| Dental lathe  |  | 1   | 2       | NA                 | NA                    |
| Vibrator  |  | 2   | 3       | NA                 | NA                    |
| Typodonts   | One set per student  | 1   | 1       | NA                 | NA                    |
| Soldering unit  |  | 1   | 1       | NA                 | NA                    |
| Band pinching beak pliers   |  | 2 Sets  | 2 Sets  | NA                 | NA                    |
| Proximal contouring pliers  |  | 2   | 3       | NA                 | NA                    |
| Crown crimping pliers   |  | 2   | 3       | NA                 | NA                    |
| Double beak pliers anterior and posterior                           |  | 2   | 3       | NA                 | NA                    |
| Lab micro motor   |  | 2   | 3       | NA                 | NA                    |
| Acryliser   |  | 1   | 2       | NA                 | NA                    |
| Magnifying loupes   |  | 1   | 1       | NA                 | NA                    |
| Conscious sedation unit   | Desirable  | 1   | 1       | NA                 | NA                    |
| Pulse oxymeter  |  | 1   | 1       | NA                 | NA                    |
| Phantom head table with attached Light, Airtor and micro motor      | One set per each P.G. Student  | 1   | 1       | NA                 | NA                    |
| Computer with internet connection with attached printer and scanner |  | 1   | 1       | NA                 | NA                    |
| LCD projector   |  | 1   | 1       | NA                 | NA                    |
| Refrigerator  |  | 1   | 1       | NA                 | NA                    |



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 |         | 10                 | Adequate              |
|  |  | 1 Unit   | 2 Units |                    | Adequate              |
| RVG with intra oral radiography machine (FDA Approved)                                 | 55-70 Kvp with digital compatibility   | 1  | 1       | 1                  | Adequate              |
| Extra oral radiography machine   | 100 kvp  | 1  | 1       | 1                  | Adequate              |
| Panoramic radiography (OPG) machine with cephalometric and TMJ attachment with printer | Digital compatibility  | 1  | 1       | 1                  | Adequate              |
| Intra-oral camera  |  | 1  | 2       | 1                  | Adequate              |
| Pulp tester  |  | 2  | 4       | 2                  | Adequate              |
| Autoclave  |  | 1  | 1       | 1                  | Adequate              |
| Punch biopsy tool  |  | 2  | 3       | 2                  | Adequate              |
| Biopsy equipment   |  | 1  | 2       | 2                  | Adequate              |
| Surgical trolley   |  | 2  | 2       | 3                  | Adequate              |
| Emergency medicines kit  |  | 1  | 1       | 1                  | Adequate              |
| Extra oral cassettes with intensifying screens (Conventional and rare earth)           |  | 4  | 6       | 10                 | Adequate              |
| Lead screens   |  | 2  | 2       | 5                  | Adequate              |
| Lead aprons  |  | 2  | 2       | 4                  | Adequate              |
| Lead gloves  |  | 2  | 2       | 2                  | Adequate              |
| Radiographic filters (Conventional and rare earth)                                     |  | 1  | 1       | 1                  | Adequate              |
| Dark room with safe light facility   |  | 1  | 1       | 1                  | Adequate              |
| Automatic radiographic film processors   |  | 2  | 2       | 2                  | Adequate              |
| Radiographic film storage lead containers  |  | 1  | 1       | 1                  | Adequate              |
| Thyroid collars  |  | 1  | 1       | 1                  | Adequate              |
| Digital sphygmomanometer   |  | 1  | 1       | 1                  | Adequate              |
| Digital blood glucose tester   |  | 1  | 1       | 1                  | Adequate              |
| Digital camera   |  | 1  | 1       | 1                  | Adequate              |
| X-ray viewer boxes   |  | 2  | 3       | 5                  | Adequate              |
| Lacrimal probes  |  | 2 sets   | 2 Sets  | 2 Sets             | Adequate              |
| Sialography cannula  |  | 2 sets   | 2 Sets  | 2 Sets             | Adequate              |
| Illuminated mouth mirror and probe   |  | 2  | 2       | 2                  | Adequate              |
| Computer with internet connection with attached printer and scanner                    |  | 1  | 1       | 1                  | Adequate              |
| LCD projector  |  | 1  | 1       | 1                  | Adequate              |
| Refrigerator   |  | 1  | 1       | 1                  | Adequate              |

  
**Dean,**  
**Govt. Dental College & Hospital**  
**Chhatrapati Sambhajinagar**