

Clinical Establishment Act Standard for Dental Lab

Standard No.CEA / Dental Lab

MINIMUM STANDARDS FOR DENTAL LABORATORY

<p>DEFINITION</p> <p>Dental laboratory</p>	
<p>SCOPE SERVICES PROVIDED</p>	<p>Will provide laboratory work pertaining to different specialities of dentistry</p>
<p>PHYSICAL INFRASTRUCTURE</p>	<p>1 Walls shall be painted with proper quality paint with no sharp edges; floors shall be made of easily washable material e.g. ceramic tiles.</p> <p>2 Proper day lighting and ventilation within the laboratory</p> <p>3 Specified place to mould the metal (specially Crowns, bridges, chrome cobalt) and shall include the following machines:</p> <ul style="list-style-type: none"> • Casting machine for casting all dental alloy • Preheating furnace. • Wax elimination furnace. • Soldering unit. <p>4 Specific place to mould ceramics that is isolated from the Laboratory other parts and dust protection (ante-dust). Shall include the following machines:</p> <ul style="list-style-type: none"> • Porcelain furnace • Ultra sonic unit <p>5 Specified place for polishing process that includes the following:</p> <ul style="list-style-type: none"> • Polishing unit for dry and wet polish. • Electrolytic polishing unit. • High-speed grinder. <p>6 Specified place that includes the following:</p> <ul style="list-style-type: none"> • Polymerization unit. • Flask press. • Boil – out unit <p>7 Specified place for Models that includes the following:</p> <ul style="list-style-type: none"> • Model trimmer (single or double disc). • Vibrator. • Plaster dispenser. • Model duplicate unit <p>8 Staff room / area</p> <p>9 Store to keep the Laboratory materials</p> <p>10 A room for the technical in charge (optional)</p> <p>11 General safety and security conditions to be provided in the building and fire fight hoses</p> <p>12 Dedicated area for storing records</p>
<p>OUTSIDE SIGNAGES</p>	<p>1. name of the dental laboratory</p>

<p>INSIDE SIGNAGES</p>	<ol style="list-style-type: none"> 1. Name of laboratory technician 2. working hours 3. Services provided 4. Charges of the services offered
<p>INFRASTRUCTURE</p>	<p>CONSIDERATIONS</p> <ul style="list-style-type: none"> • floors and walls – these must be non-porous, without carpets, smooth and easily cleaned • Lighting: Provide a proper lighting for the working tables and working area and natural lighting for the ceramics room area to differentiate the ceramics colours. <p>Working table requirements and specifications:</p> <ol style="list-style-type: none"> 1 A hard stone surface 2 Bench with light 3 Suction unit for dust extraction. 4 Drawers 5 Hand piece and controller 6 Bunsen burner 7 Laboratory chairs <p>WATER DRAINAGE</p> <ol style="list-style-type: none"> 1 Water drainage system shall be wide enough to allow easy passage of water and be clean 2 Special filters shall be placed under the basins to collect all dirt and left over of plaster so as to prevent it from going through the drainage system <p>VENTILATION:</p> <ol style="list-style-type: none"> 1 Providing suctioning fans to refine the atmosphere 2 Premises provided with special suction placed above the thermal ovens to suck the ascending vapours and gases out of the ovens 3 Dental laboratory technicians work in clean, well-lighted, and well-ventilated areas. Technicians can have their own workbenches, which can be equipped with Bunsen burners, grinding and polishing equipment, and hand instruments, such as wax spatulas and wax carvers.

	<p>SAFETY CONDITIONS:</p> <ol style="list-style-type: none"> 1 Make the Emergency Exits in the building free of obstacles 2 Providing fire-extinguisher 3 Laboratory floor shall be made of anti-fire ceramics 4 Provide the Laboratory with fire alarms
HUMAN RESOURCES	
TECHNICAL STAFF	<ol style="list-style-type: none"> 1. LABORATORY TECHNICIAN registered with the dental council of India.
NON TECHNICAL STAFF	<p>GRADE IV staff employed full time/part time/outsourced.</p>
Periodic health check up, vaccination of staff	<ul style="list-style-type: none"> • Once in a year health check up of all the staff. • Mandatory hepatitis B vaccination of the staff.
<p>EQUIPMENT (FUNCTIONAL)</p> <ol style="list-style-type: none"> 1. Hand piece and controller 2. Bunsen burner 3. Casting machine for casting all dental alloy 4. Preheating furnace. 5. Wax elimination furnace. 6. Soldering torch 7. Porcelain furnace 8. Ultra sonic unit 9. Polishing unit for dry and wet polish. 10. Electrolytic polishing unit. 11. High-speed grinder. 12. Polymerization unit. 13. Flask press. 14. Boil – out unit 15. Model trimmer (single or double disc). 16. Vibrator. 17. Plaster dispenser. 18. Model duplicate unit 19. Consumables- should be available in adequate number. <ul style="list-style-type: none"> • Facemask • Gloves • Dental plaster 	<p>QUANTITY</p> <ol style="list-style-type: none"> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<ul style="list-style-type: none"> • Dental stone • Die stone • Modelling wax • Impression compound • Sticky wax • Anatomic ,semianatomic and flat denture teeth • Cold cure resin powder and liquid • Heat cure resin powder and liquid • Self cure and light cure composite resin • Stainless steel wires-19 gauge to 23 gauge • Soldering flux 	
SUPPORT SERVICES	
BMW MANAGEMENT	<ul style="list-style-type: none"> • Segregation of waste should be done in black, yellow and blue bags . It is mandatory to segregate the waste at the site of waste generation. • Contract for disposal of BMW should be given to a company approved by government of India/ ministry of environment/CPCB. • There should be a written contract for BMW management along with the economy involved. • Logbook should be maintained mentioning weight of the waste(infected) and date on which waste (new/old) was lifted.
RECORD MAINTENANCE AND REPORTING	Daily record keeping for mentioning lab work rendered along with charges.
STANDARDS ON BASIC PROCESSES	
INFECTION CONTROL	<ul style="list-style-type: none"> •There must be good supply of clean water, through a quality piping that support good water hygiene •All general purpose cleaning equipment and agents should be stored in a separate part of the premises • There must be a specific space (not less than 1.5 sq. meter) for cleaning and sterilisation of dental instruments and should not be used

	<p>other than above.</p> <ul style="list-style-type: none"> •Use trash bin lined with commercial color coded plastic bag for the medical waste •Keep cleaning equipment always in a very clean condition before use; type of floor sanitizing and cleaning agents must be approved for clinical use. •There should be no cotton or wool fabric curtains in dental labs. •Non-wooden storage cabinet shall be used for storing cleaning equipment and agents •labcoats, gowns ,facemask, gloves etc should be utilized.
<p>FACILITIES FOR HAND WASHING</p>	<p>Hand-washing facilities must not be combined with sinks used for other purposes, such as decontamination and instrument cleaning.</p>
<p>FACILITIES FOR STERILIZATION</p>	<p>Disinfectants- 2 percent glutaraldehyde, sodium hypochlorite, chlorhexidine etc</p>
<p>POLICY ON OUTSOURCED SERVICES</p>	<p>cleaning staff and pest control are some of the other services which can be outsourced</p>