



भारतीय दन्त परिषद
Dental Council of India



AMC DENTAL COLLEGE

Khokhra, Ahmedabad 380008

Affiliated to Gujarat University

SELF STUDY REPORT (CYCLE 1) 2022-2023

CRITERIA: 4: Infrastructure and Learning Resources

KEY INDICATOR: 4.2 Clinical, Equipment and Laboratory Learning Resources

METRIC: 4.2.1: Teaching Hospital, equipment, clinical teaching-learning and laboratory facilities as stipulated by respective Regulatory Bodies.



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Data

The list of facilities as per the stipulation of respective regulatory bodies with geotagging

A. M. C. MEDICAL EDUCATION TRUST





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EQUIPMENTS

CBCT



CBCT machine placed at ground floor of hospital building in the Oral Medicine and Radiology department, used for diagnosis and investigations, with slide thickness of <100 microns, 3D scan time of ≤ 30 sec.

2.RVG



RVG machine placed at first floor of hospital building in the conservative and endodontics department, with pixel size of 1000x1500, APS CMOS detector technology.

OPG MACHINE



Digital OPG machine with Ceph. Attachment, placed at ground floor of hospital building in the Oral Medicine and Radiology department. Two built-in sensors (CCD, CMOS, TFT), Pixel size - ≤ 100 micron.

IOPA –XRAY MACHINE



IOPA machine, wall mounted, placed at ground floor of hospital building in the Oral Medicine and Radiology department, for diagnosis, investigations, DC model, with generator at constant potential, focal spot size $\leq 0.7\text{mm}$.

INTRAORAL CAMERA



Intraoral camera, in the Oral Medicine and Radiology department. at ground floor of hospital building, used for diagnosis, investigation, recording and visualizations of intraoral tissues, with specifications of $\frac{1}{4}$ " CCD, 470 lines

CENTRIFUGE MACHINE



Centrifuge Machine, at ground floor of hospital building in the department of Oral Surgery . Used for PRF, with 300ml capacity and maximum speed of 4000rpm.

IMPLANT KIT WITH PHYSIODISPENSOR



Dental Implant Kit with physiodispenser, in the Oral Surgery department at ground floor of Hospital Building. Upto 80 Ncm powerful torque, illuminated display, flexible speed control between 200 to 40000 rpm.

PIEZO SURGERY UNIT



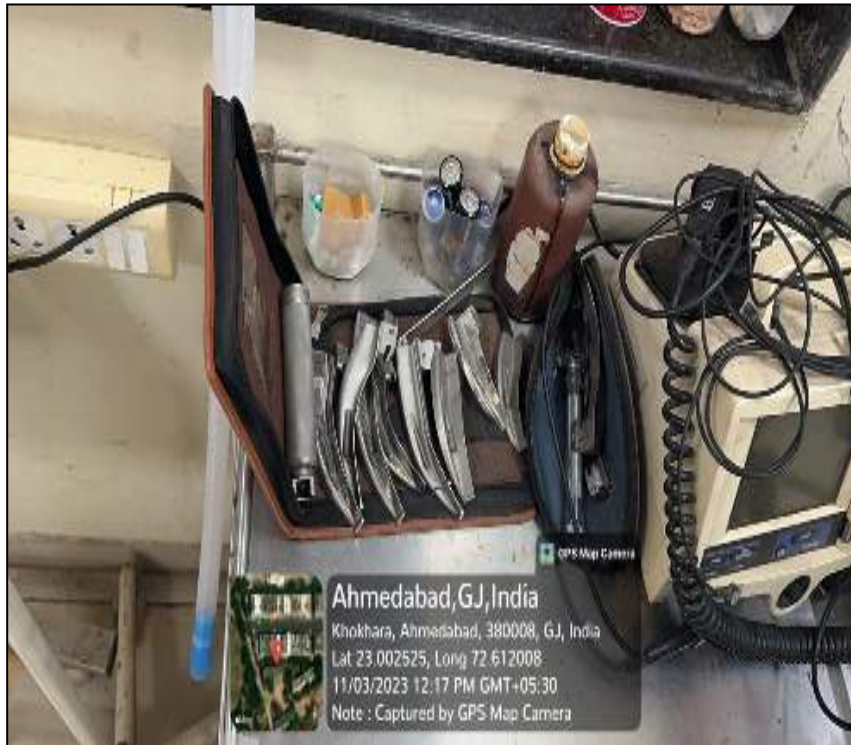
Piezo Surgery Unit in the Oral Surgery department , Operation theatre, for bone cutting using ultrasonic microvibrations.

ANESTHETIC WORKSTATION



State of the art Anesthetic workstation at ground floor of hospital building in the Oral and Maxillofacial Surgery department. OT.

FIBEROPTIC



Fiberoptic, in the department of Oral Surgery at Ground floor of Hospital Building, used for anaesthetic intubation when patient is unable to breathe.

STERO MICROSCOPE



StereoMicroscope in the department of Prosthodontics, for recording and examining solid sample with intricate surface details, measuring depth of microleakage of endodontic filling material, checking the marginal infidelity of metal ceramic and all ceramic full coverage crown.

MICROSURVEYOR



Microsurveyor in the department of Prosthodontics, to examine abutment teeth, design dentures and to make parallel measurements of abutment teeth for bridges.

PNEUMATIC CHISEL



Pneumatic Chiesel in the department of Prsthodontics, used for opening flasks and investment casting rings and also helps in the placement of Dental Implants with precision.

INDUCTION CASTING MACHINE



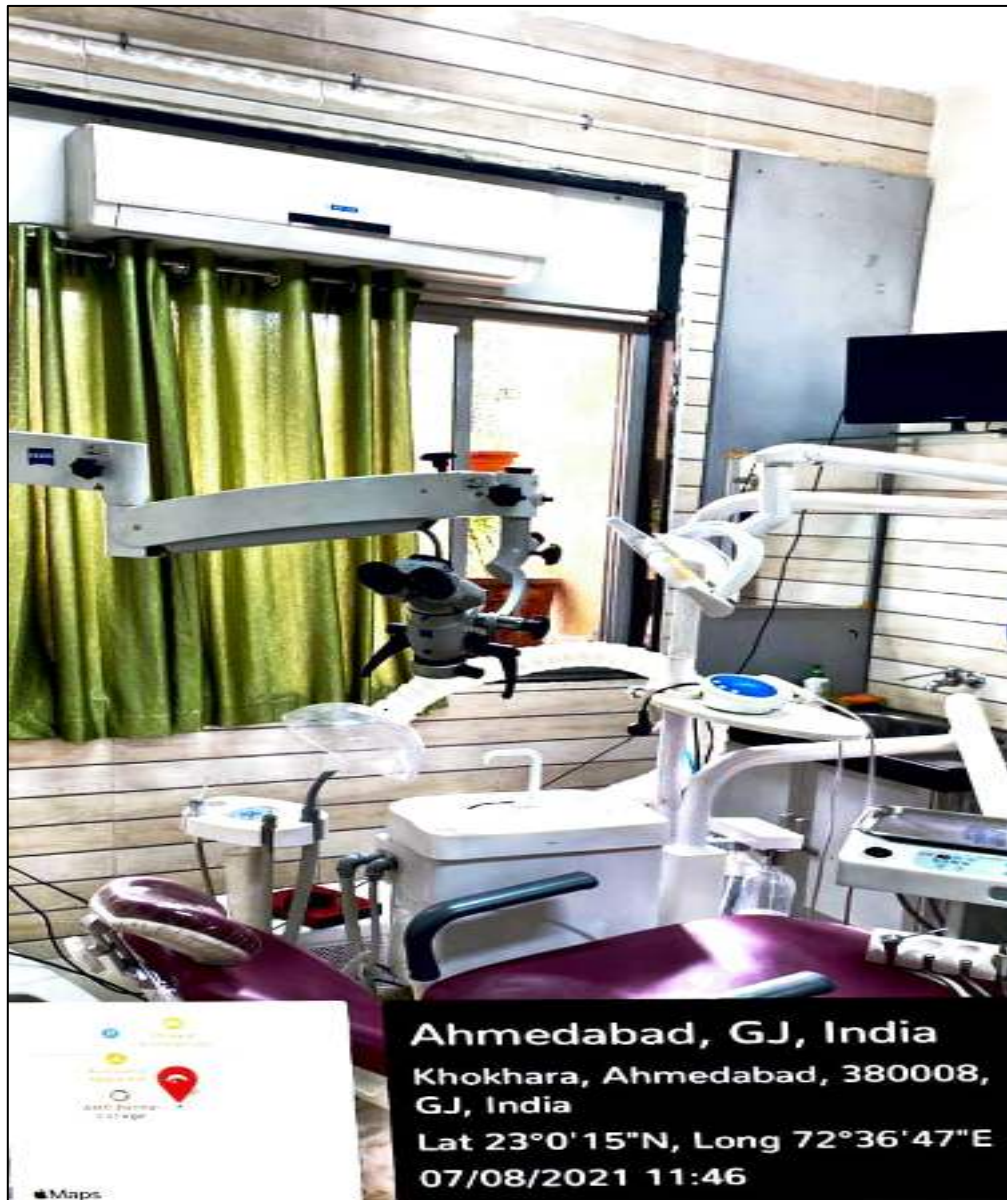
Induction casting machine, in the department of Prosthodontics at first floor of Hospital Building, used for casting of dental Co-Cr, and Ni-Cr and precious alloys.

CERAMIC FURNANCE



Ceramic Furnace in the department of Prosthodontics at first floor of Hospital Building, used to fire ceramic material like porcelien to produce dental crowns, bridges, veneers and other restorations.

ENDO MICROSCOPE



Endo Microscope in the department of Endodontics at first floor of Hospital Building, used for magnifying and illuminating root canal system during treatments.

LIGHT CURING UNIT



Light curing Unit, in the department of Endodontics at first floor of Hospital Building, used for quickly and precisely polymerizing resin based composites in restorations.

BLEACHING UNIT



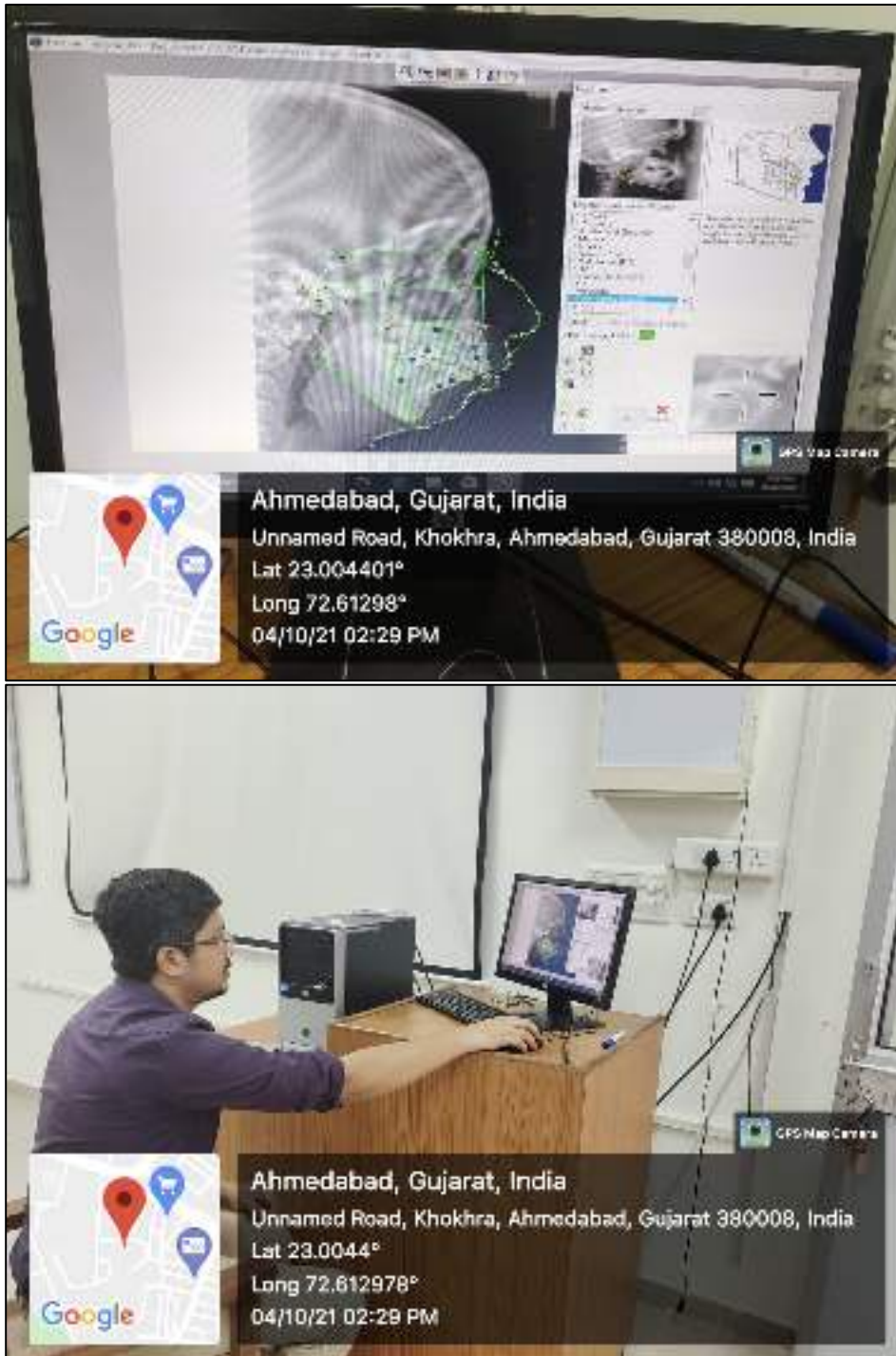
Bleaching Unit, in the department of Endodontics at first floor of Hospital Building, essential for whitening discolored teeth.

BIOSTAR



Biostar, in the department of Orthodontics at Second floor of Hospital Building, used to make E-6 Retainer, Night Gaurds, Sports Gaurds and Clear Aligners.

DOLPHIN SOFTWARE



Dolphin Software, in the department of Orthodontics at second floor of Hospital Building, used for 3D and 2D analysis of image dataset.

LASER UNIT



LASER, in the department of Periodontology at Second floor of Hospital Building, used for low level LASER therapy, photodynamic therapy, various periodontal surgeries (gingivectomy, Frenectomy, Crown Lengthning).

CENTRIFUGE MACHINE



Centrifuge Machine, in the department of Periodontology at Second floor of Hospital Building, used to separate different constituents of Blood.

APEX LOCATOR



Apex Locator, in the department of Pedodontics at third floor of Hospital Building, used for determination of working length while doing root canal treatment.

RESEARCH MICROSCOPE WITH RETINA SCREEN



Research microscope with retina screen, in the department of Oral and Maxillofacial Pathology, at second floor of college Building, used for live discussion of slides with students and for research purposes.

AUTOMATIC TISSUE PROCESSOR



Automatic Tissue Processor, in the department of Oral and Maxillofacial Pathology, at second floor of college Building, used for automatic processing of received biopsy specimen before sectioning and staining.

INTRAORAL SCANNER



Intraoral Scanner, in the central SPS, used for scanning the dentition for fabrication of crown and prosthesis.