



**INITIAL RECOGNITION
FRAMEWORK
(Criteria)**

**FOR MEDICAL
AND DENTAL SCHOOLS
IN PAKISTAN - 2019**

For
DENTAL COLLEGES
UPTO 50 ADMISSIONS PER CLASS



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Introduction

This document describes the minimum requirements for a medical or dental college to operate in Pakistan. The requirements highlighted in this document pertain to evaluation of a college's infrastructure and equipment adequacy for provision of medical education. This document only deals with the initial inspection mandatory for recognition of a medical or dental college.

Along with the evaluation of a college on requirements highlighted in this document, the college will also be surveyed on the standards for performance evaluation – which deals with the quality of the process of delivery of education.

Requirements of this document are to be fulfilled by the medical and dental colleges at all time during the operation. However, the evaluation of fulfillment of these requirements is evaluated:

1. When a new medical or dental college apply for recognition by PMDC
2. When an existing medical or dental college apply for increase in number of students
3. By the order of the Evaluation Committee of PMDC pursuant to complaints or reports received against any existing college
4. By a general order of the Evaluation Committee of PMDC

For new colleges, the inspection shall be carried out using requirements of this document as well as for the performance evaluation accreditation framework.

1. Recognition Standards

Pakistan Standards for Initial Recognition of Medical and Dental Colleges

Recognition Standard 0: Pre-requisites

Recognition Standard 1: Infrastructure requirements

Recognition Standard 2: Equipment Requirements

Recognition Standard 3: Faculty and Staff requirements

Recognition Standard 4: Teaching Hospital Requirements

Pre-Requisites

Legal Requirements

The College must have:

- 0.1. Established in a building owned or leased from the government or other competent authority by the legal entity that is granted the recognition or its parent entity.
- 0.2. A hospital(s) that have a minimum of 60 hospital beds owned by the college or leased from the government or other competent authority
- 0.3. A hospital(s) that have a minimum of 75 Dental operators/units owned by the College or leased from the government or other competent authority.
- 0.4. Approval by the respective ministry of health for Public Sector College. And for a private college, it must be registered as a company with Security and Exchange Commission of Pakistan (SECP) or other applicable approvals such as:
 - a. Body corporate registered under the relevant laws of companies or societies or trust
 - b. Federal Government or Provincial Government or Local Government
 - c. Pakistan University
 - d. Public religious or charitable trust registered under relevant law
- 0.5. A working capital of minimum equivalent of number of students over all sessions x one month fee of each student.
- 0.6. Investment of an equivalent amount of 1% of the total annual fee into an endowment fund utilization of which shall be regulated by PMDC or HEC.

- 0.7. Its account audited on an annual basis and annual report made available to PMDC.
- 0.8. Audited Account of the Attached Hospital, on an annual basis and annual report made available to PMDC.
- 0.9. All its teaching hospitals within 35 km from the College or up to one hour travel time by college bus under normal traffic conditions, whichever is longer.
- 0.10. Provision of bank guarantees For of PKR 30 Million for the Private College.
- 0.11. Provision of bank guarantee of PKR 20 Million for the hospital, attached to the College.
- 0.12. A compliant governance structure with the government regulations (for Public Sector). For private college, its governance structure must be compliant with the requirements of SECP or other regulatory framework under which the college is registered.
- 0.13. Approval of the services offered by the hospital, by the relevant authorities.
E.g. when radiology services must be approved by Pakistan Nuclear Regulatory Authority (PNRA).

Recognition Standard 1: Infrastructure

College Covered Area

The College Must Have:

- 1.1. Total covered area of the Dental College with hospital of at least 50,000 sq. ft. in case of a standalone Dental College.
- 1.2. Total covered area of the Dental College with dental hospital of at least 30,000 sq. ft. in case it is associated with a Medical College.
- 1.3. A purpose-built building separate from the hospital and Medical College or if building is attached with medical college building, it should be a purpose build separate structure with covered area as per parameter 1.2.
- 1.4. Learning Resource Centre. The Learning Resource Centre may be shared with associated Medical College.
- 1.5. An Auditorium can be shared with medical college.
- 1.6. At least 3 dedicated lecture halls for dentistry with seating capacity sufficient to accommodate the student strength of each class.
- 1.7. At least one demonstration / small group room each for Anatomy, Physiology, Biochemistry, Pharmacology and Pathology may be shared with attached Medical College. The Dental College must have 4 demonstration rooms shared by various Basic Dental and Clinical subjects. Seating capacity of at least 1/3rd class strength.
- 1.8. Two Common Rooms, one for boys and one for girls. The hostels may be shared with associated medical college.
- 1.9. A Day-Care Room. The day-care room may be shared with associated medical college.
- 1.10. A student's cafeteria. The cafeteria may be shared with associated medical college.
- 1.11. Administration Offices comprising of Principal/ Dean Office, vice Principal/ Associate Deans Office, Committee Room, Faculty Room and student affair section should be in dental college. IT Department , Student Section Office, Security Office, Waiting Area, Support Staff Offices, Finance Office, Maintenance Office may be shared with associated medical college.
- 1.12. Anatomy Museum. The museum may be shared with associated Medical College.
- 1.13. Dissection Hall. The hall may be shared with associated Medical College.
- 1.14. Pathology Museum. The museum may be shared with associated medical college.

- 1.15. At least 5 multi-purpose labs for Anatomy, Physiology, Biochemistry, Pharmacology and Pathology. The multi-purpose labs may be shared with associated medical college.
- 1.16. A Lab of Science of Dental Materials
- 1.17. Dental Laboratory (Prosthetic Lab/ Orthodontic Lab)
- 1.18. Plaster room and curing room (Prosthetic / Orthodontic / Oral Biology)
- 1.19. A Casting and Ceramic Lab
- 1.20. A multi-purpose lab for Oral Pathology and Oral Biology
- 1.21. A Skill Development Lab (Phantom Head)
- 1.22. A Ceph Tracing Room with wire work facility.
- 1.23. One Dental Museum of college for all subjects.
- 1.24. Faculty Offices for all departments.
- 1.25. The college must have adequate circulation spaces to meet emergency, safety and disability requirements

Seating Requirements

The College Must Have:

- 1.26. Seating capacity for 15% of total student strength in Learning Resource Centre for the 4 years tenure. If library is shared with associated medical college, the seating capacity must be for 15% of total student strength of medical and dental colleges combined.
- 1.27. Seating capacity of 60% of the total strength in auditorium. If auditorium is shared with associated medical college, the seating capacity must be for 60% of total student strength of medical and dental colleges combined.
- 1.28. At least 3 dedicated lecture halls for dentistry with seating capacity sufficient to accommodate the student strength of each class.
- 1.29. There should be 4 tutorial rooms each with seating capacity of 1/3 of class strength.
- 1.30. Seating capacity for 5% of total student strength in Common Room for Boys for the 5 years tenure. If boy's common room is shared with associated medical college, the seating capacity must be for 5% of male student strength of medical and dental colleges combined.

- 1.31. Seating capacity for 5% of total student strength in Common Room for Girls for the 5 years tenure. If girl's common room is shared with associated medical college, the seating capacity must be for 5% of female student strength of medical and dental colleges combined.
- 1.32. Seating capacity for 15% of total student strength in Students Cafeteria for the 4 years tenure. If cafeteria is shared with associated medical college, the seating capacity must be for 15% of total student strength of medical and dental colleges combined.
- 1.33. Seating capacity for 50 students in Dissection Hall. Dissection hall may be shared with associated medical college.
- 1.34. Seating capacity of 50 students in each of the 5 multi-purpose labs for Anatomy, Physiology, Biochemistry, Pharmacology, and Pathology. These may be shared with associated medical college.
- 1.35. Seating capacity for 25 students in Laboratory of Science of Dental Materials
- 1.36. Seating capacity for 25 students in Dental Lab.
- 1.37. Seating capacity for 25 students in Plaster / curing room.
- 1.38. Seating capacity for 1/3 students in ceramic Lab.
- 1.39. Seating capacity for 50% students in multi-purpose lab for Oral Pathology and Oral Biology.
- 1.40. Seating capacity for 50% students in Skill Development Lab (Phantom Head).
- 1.41. Seating capacity for 1/3rd of students in Ceph Tracing Room.
- 1.42. Separate workstation for each teaching staff of Basic Sciences inside college building, with separate offices for Associate Professors and above. In case of associated medical college, the offices and workstations of dental faculty must be separate from the medical college.
- 1.43. Separate academic council/ faculty conference room with a seating capacity of 25 to 30 individuals.

Hostel Requirements

- 1.44. The boys' hostel must have the capacity to house at least 20% of the total male student strength. If the boy's hostel is shared with associated Medical College, the housing capacity must be for 20% of total male student strength of Medical and Dental colleges combined.
- 1.45. The girls' hostel must have the capacity to house at least 30% of the total female student strength. If the girl's hostel is shared with associated medical college, the housing capacity must be for 30% of total student strength of medical and dental colleges combined.
- 1.46. The hostels must have television and internet access

- 1.47. The hostels must have indoor games facilities

Other Requirements

- 1.48. The college must be able to provide teaching in an environment with comfortable room temperature (18 to 26 degrees Celsius) in lecture halls, demonstration areas, laboratories and learning resource centers under conditions of full occupancy.
- 1.49. The college's Learning Resource Centre must have functioning computers for 30% of seating capacity with access on all computers of HEC and university's digital library.
- 1.50. The college must have Wi-Fi connectivity all across the campus, with access to every student and faculty. Wi-Fi connectivity must allow access to HEC and university's digital library.
- 1.51. The college must have at least one multi-sports ground as per the requirements of HEC. The multi-sports ground may be shared with associated medical college.
- 1.52. The college must have, preferably within premises, a mosque with adequate capacity.
- 1.53. The college must provide transport facility, either owned or hired, catering to at least 20% of the total student strength, 30 faculty members and 30 other staff members. If transport is shared with associated medical college, the transport capacity must be for 20% of total student strength of medical and dental colleges combined, 60 faculty members of medical and dental college and 60 other staff members of medical and dental colleges.
- 1.54. The college must provide to students a counseling cell, staffed with a clinical psychologist. The counseling cell may be shared with associated Medical College.

Recognition Standard 2: Equipment

College Laboratory Equipment Requirements

Science of Dental Materials Laboratory
Equipment for science of Dental Materials

The College must have:

- 2.1. One cast trimmer available, functional and in use.
- 2.2. One vibrator available, functional and in use.

Materials:

- 2.3. 05 plaster buckets available, functional and in use.
- 2.4. 13 Bunsen burners available, functional and in use.
- 2.5. Adequate cold mould seal.
- 2.6. 03 cutters (wire) available, functional and in use.
- 2.7. 01 green stick box (for demo purpose) available, functional and in use.
- 2.8. 04 Glass slabs available, functional and in use.
- 2.9. 01 cement each of all types available, functional and in use.
- 2.10. Adequate hard plaster available, functional and in use.
- 2.11. 01 box of impression compound available, functional and in use.
- 2.12. 06 sets each of impression trays (Assorted for partial and complete dentures – for demo) available, functional and in use.
- 2.13. Adequate modelling wax available, functional and in use.
- 2.14. 01 moulds each (partial and complete denture) available, functional and in use.
- 2.15. Adequate petroleum jelly available, functional and in use.
- 2.16. Adequate plaster knife available, functional and in use.
- 2.17. Adequate plaster spatula available, functional and in use.
- 2.18. Adequate self-cure acrylic powder available, functional and in use.
- 2.19. Adequate additional silicone impression materials (for demo) available.
- 2.20. Adequate dental stones (assorted) available, functional and in use.
- 2.21. Adequate soft plaster available, functional and in use.
- 2.22. Adequate sandpaper available, functional and in use.
- 2.23. Adequate sticky wax every system available, functional and in use.
- 2.24. 20 boxes of acrylic teeth available, functional and in use.
- 2.25. 01 kg of S.S wire (0.5, 0.7, 0.8 half round) available, functional and in use .

- 2.26. 10 wax knives available, functional and in use.
- 2.27. 10 wax carvers available, functional and in use.
- 2.28. Adequate heat cure acrylic powder available, functional and in use.
- 2.29. Adequate rubber bowls available, functional and in use.
- 2.30. A dental composite kit including bond and etchant available, functional and in use.
- 2.31. Adequate dental amalgam available, functional and in use.
- 2.32. Adequate calcium hydroxide cement available, functional and in use.
- 2.33. Adequate boxing-in wax available, functional and in use.

Oral Pathology Laboratory

The Department must have at least:

- 2.34. 8 microscopes available, functional and in use.
- 2.35. 01 Multihead microscope with three heads (Relaxation of one year).
- 2.36. 01 Microscope with multimedia connectivity.
- 2.37. One centrifuge machines available, functional and in use.
- 2.38. One calorimeter/chemistry analyzer available, functional and in use.
- 2.39. One reagent refrigerator available, functional and in use.
- 2.40. One balance available, functional and in use.
- 2.41. Two staining rack available, functional and in use.
- 2.42. Twelve staining jars available, functional and in use.
- 2.43. 10 packs of slides glass available, functional and in use.
- 2.44. Ten boxes of coverslips available, functional and in use.
- 2.45. Adequate pothydroxide available, functional and in use.
- 2.46. 01 microtome available, functional and in use.
- 2.47. 01 wax dispenser available, functional and in use.

Note: - *Other than first three requirements, the rest of the requirements can be shared with the pathology department*

Oral Biology Laboratory

The College must have at least:

- 2.48. 10 microscopes available, functional and in use.
- 2.49. 01 model trimmer/saw available, functional and in use.
- 2.50. 01 bench grinder for tooth sectioning to prepare histological slides available, functional

and in use.

- 2.51. Adequate number of oral histology slides of oral tissues.
- 2.52. 02 sets of single teeth moulds available, functional and in use.
- 2.53. 02 sets of ideal complete teeth moulds available, functional and in use.
- 2.54. 05 sets of deciduous teeth study models available, functional and in use.
- 2.55. 05 sets of permanent teeth study models available, functional and in use.
- 2.56. 02 sets of mixed dentition study models available, functional and in use.
- 2.57. 01 multi head microscope with three heads (*Relaxation of one year*).

Note: - *In the case of the One multipurpose Lab for Oral Pathology and Oral Biology 15 microscopes plus 01 multi head microscope with three heads (Relaxation of one year) (along with the other related materials for the both oral Pathology and oral Biology departments mentioned above)*

Skill Development Laboratory (Phantom Lab)

The college must have at least:

- 2.58. 25 phantom heads available, functional and in use.
- 2.59. Phantom head attachments for 50 students available, functional and in use.
- 2.60. Adequate no of Phantom head teeth available, functional and in use.

Dental Public Health/ Community and Preventive Dentistry Lab

Screening and Preventive Clinic

The college must have at least

- 2.61. 05 light-weight folding chairs/ couches for dental examination and preventive procedures.
- 2.62. 50 sets of examination instruments available, functional and in use.
- 2.63. 50 CPI-C probes available, functional and in use.
- 2.64. 20 Periodontal Probes available, functional and in use.
- 2.65. 01 stethoscope (complete) functional and in use.
- 2.66. 01 BP apparatus available, functional and in use.
- 2.67. 01 measuring tapes available, functional and in use.
- 2.68. Must have a Weighing machine (digital) functional and in use.
- 2.69. 05 clinical thermometers available, functional and in use.
- 2.70. Adequate no plaque disclosing agent/ lozenges.
- 2.71. Dental floss.
- 2.72. 01 First Aid box.

Community Outreach Services

Equipment:

The college must have at least

- 2.73. 01 portable dental units available, functional and in use.
- 2.74. 100 sets of examination instruments available, functional and in use.

- 2.75. 10 sets of ART available, functional and in use; each set must comprise of small and medium size excavators, cavity opener and Application-Filling- Contouring Instrument (AFCI).
- 2.76. 04 plastic instruments available, functional and in use.
- 2.77. 06 mouth props available, functional and in use.
- 2.78. 10 disposable suction tips available, functional and in use.
- 2.79. 02 cheek retractors available, functional and in use.
- 2.80. 06 instrument boxes available, functional and in use.
- 2.81. 05 large trays available, functional and in use.
- 2.82. 02 round diamond Burs available, functional and in use.
- 2.83. 02 slow speed round Burs available, functional and in use.
- 2.84. 02 Polishing Brushes available, functional and in use.
- 2.85. 06 Instrument Trays available, functional and in use.
- 2.86. 02 Mixing Spatulas available, functional and in use.
- 2.87. 02 Glass slabs available, functional and in use.
- 2.88. 05 Instrument Dish available, functional and in use.
- 2.89. 03 Instrument Box available, functional and in use.
- 2.90. 50 CPI-E probes available, functional and in use.
- 2.91. 20 Periodontal Probes available, functional and in use.
- 2.92. Assorted torches available, functional and in use.
- 2.93. 01 Temperature maintained ice boxes available.

Materials:

- 2.94. Adequate petroleum jelly.
- 2.95. GIC (high-viscosity for ART and Fissure Sealant purpose) available, functional and in use.
- 2.96. Adequate sterilization liquid available.
- 2.97. Xylocaine spray/gel available.
- 2.98. 01 Sterilization pouch rolls available.
- 2.99. Fluoride Gel available.
- 2.100. 20 packs of suction tips.

- 2.101. 08 packets Disposable Gloves available.
- 2.102. 05 liters Hydrogen peroxide available.
- 2.103. 10 boxes disposable glasses available.
- 2.104. 15 Perio models (CPITN measurements) available, functional and in use.
- 2.105. 15 decayed (DMFT measurements) available, functional and in use.
- 2.106. 15 fluorosis every system available, functional and in use.
- 2.107. 10 tooth brushing models available, functional and in use.

Basic Research/ Biostatistics Laboratory

- 2.108. One computer with internet facility available, functional and in use.
- 2.109. One scanner available, functional and in use.
- 2.110. One colour laser printer available, functional and in use.
- 2.111. One multimedia available, functional and in use for teaching purpose.
- 2.112. Two white boards available, functional and in use for teaching purpose.
- 2.113. Licensed bio statistical software (Stata, SAS, SPSS).

Oral and Maxillofacial Surgery

The college must have at least:

- 2.114. 75 sets of examination instruments i.e., Mirrors, Probs and Tweezers available, functional and in use.
- 2.115. 10 each extraction forceps for upper and lower teeth available, functional and in use.
- 2.116. 10 each BDR forceps for upper and lower teeth available, functional and in use.
- 2.117. 06 each deciduous molar forceps available, functional and in use.
- 2.118. 04 wire cutters available, functional and in use.
- 2.119. 10 twisters available, functional and in use.
- 2.120. 10 bone files available, functional and in use.
- 2.121. 06 surgical chisels and mallet available, functional and in use.
- 2.122. 10 bone rongeurs system available, functional and in use.
- 2.123. 06 root tips pick every system available, functional and in use.
- 2.124. 06 tissue forceps every system available, functional and in use.
- 2.125. 04 excavators available, functional and in use.

- 2.126. 04 wire cutters available, functional and in use.
- 2.127. 04 condensers available, functional and in use.
- 2.128. 06 mouth props available, functional and in use. 2.186Twelve suction tip (steal) available, functional and in use.
- 2.129. 08 cheek retractors available, functional and in use.
- 2.130. 06 instrument boxes available, functional and in use.
- 2.131. 10 scalpel handles available, functional and in use.
- 2.132. 20 syringes available, functional and in use.
- 2.133. 06 needle holders available, functional and in use.
- 2.134. 08 suture cutting scissors available, functional and in use.
- 2.135. 05 each steel scissors (straight and curved) available, functional and in use.
- 2.136. 10 straight elevators available, functional and in use.
- 2.137. 10 periosteal elevators available, functional and in use.
- 2.138. 06 sets of Cryer elevator available, functional and in use.
- 2.139. 04 skin hooks available, functional and in use.
- 2.140. 10 each artery forceps (straight and curved) available, functional and in use.
- 2.141. 05 large trays available, functional and in use.
- 2.142. 04 wire cutters available, functional and in use.
- 2.143. 10 instrument trays available, functional and in use.
- 2.144. 08 micro-motor hand piece available, functional and in use.
- 2.145. Standard Emergency Instrument Kit in Minor Oral Surgery dept.
- 2.146. Standard Emergency Instrument Kit in Oral and Maxillofacial Surgery Ward.
- 2.147. One Set of Orthognathic Surgery Instruments (Quality standard).
- 2.148. Implant surgical kit.
- 2.149. ORIF Kit

Orthodontic materials.

The college must have:

- 2.150. Brackets (straight-edgewise) complete sets should be available for use.
- 2.151. Molar bands (all sizes) should be available for use.
- 2.152. Premolar bands (all sizes) should be available for use

- 2.153. Molar tubes for upper and lower, first and second molars should be available for use.
- 2.154. Spot weld able lingual cleats should be available for use.
- 2.155. Bondable buttons should be available.
- 2.156. Full range of Niti arch wires should be available.
- 2.157. Full range of Stainless-steel arch wires should be available.
- 2.158. Elastomeric power chains should be available.
- 2.159. Elastic ligatures should be available functional and in use.
- 2.160. Steel ligatures should be available functional and in use.
- 2.161. One Composite bracket bonding kit should be available functional and in use.
- 2.162. Luting and restorative GIC should be available functional and in use.
- 2.163. Self-cure acrylic should be available functional and in use.
- 2.164. Alginate impression material available functional and in use.
- 2.165. Good quality white Hard plaster available functional and in use.
- 2.166. Soft plaster available functional and in use.
- 2.167. Hard solder available functional and in use.
- 2.168. Spools of stainless steel wires size range (0.5-1mm) available functional and in use.
- 2.169. 35% phosphoric acid etchant available functional and in use.
- 2.170. One spool each of open and closed coil spring functional and in use.
- 2.171. Modeling and sticky wax available. Functional and in use

Orthodontic instruments:

The college must have:

- 2.172. At least 05 band pushers and band seaters available functional and in use.
- 2.173. At least 05 band removers available functional and in use.
- 2.174. At least 05 pairs of base formers upper and lower of medium and large size available and in use.
- 2.175. At least 05 bracket holders available and in use.
- 2.176. At least 03 bracket removers available functional and in use.
- 2.177. At least 08 distal end cutters available functional and in use

- 2.178. At least 05 high speed hand pieces available and in use.
- 2.179. At least 10 instrument trays (assorted) available and in use.
- 2.180. At least 01 composite light cure unit functional and in use.
- 2.181. One DSLR camera with macro lens and ring flash available and in use.
- 2.182. 02 sets of reflectors for orthodontic photography should be available.
- 2.183. 05 pairs of separate cheek retractors should be available. Functional and in use.
- 2.184. 03 lip retractors available functional and in use.
- 2.185. 10 Impression trays set (assorted) both stainless steel and plastic should be available.
- 2.186. 15 Mathieu pliers should be available functional and in use.
- 2.187. At least 40 examination mirrors available functional and in use.
- 2.188. At least 12 Illuminators available for Cephalometric purposes and X-ray investigations.
- 2.189. At least 05 Plaster bowls and spatulas functional and in use.
- 2.190. At least 40 of examination instruments including tweezers, mirrors and probes.
- 2.191. At least 04 plastic instruments and Glass slabs. Functional and in use.
- 2.192. At least 05 bird beak pliers functional and in use.
- 2.193. At least 05 Wiengart pliers functional and in use.
- 2.194. 03 Tweed loop forming pliers functional and in use.
- 2.195. 05Adam pliers functional and in use.
- 2.196. 05 light wire cutters functional and in use.
- 2.197. 01 semi adjustable articulator functional and in use.
- 2.198. 03 plane line articulators functional and in use.
- 2.199. 01 Hanau Face bow functional and in use.
- 2.200. 01 slow hand piece functional and in use.
- 2.201. Fissure and round burs for high speed hand pieces functional and in use.
- 2.202. Cutting Burs for slow hand piece (no 1172) for composite removal. Functional and in use.
- 2.203. 04 Tweed torqueing pliers functional and in use.
- 2.204. 05 pair of scissors functional and in use.
- 2.205. 05 straight hard wire cutters. Functional and in use.

- 2.206. 05 round piers, functional and in use.
- 2.207. At least one soldering gun available functional and in use

Operative Dentistry Materials.

The College must have at least:

- 2.208. Slow Speed hand pieces 10 functional and in use.
- 2.209. High Speed hand pieces 25 functional and in use.
- 2.210. light Curing unit 05 functional and in use.
- 2.211. Apex Locater 1 functional and in use.
- 2.212. Pupil Tester 1 functional and in use.
- 2.213. Hand Spreader Assorted 03 functional and in use.
- 2.214. Matrix Band with retainer 20 functional and in use.
- 2.215. Gingival Margin Trimmer 10 functional and in use.
- 2.216. Excavator 50 functional and in use.
- 2.217. Burnishes 20 functional and in use.
- 2.218. plugger 05 functional and in use.
- 2.219. Amalgam carver 20 functional and in use.
- 2.220. Endo motor 1 functional and in use.
- 2.221. MTA gun 1 functional and in use.
- 2.222. Rubber Dam kit 10 functional and in use.
- 2.223. Amalgamator 2 functional and in use.
- 2.224. Endo Tray 10 functional and in use.
- 2.225. Box Holder 5 functional and in use.
- 2.226. X-ray Illuminator 02 functional and in use.
- 2.227. Instrument trolley 04.
- 2.228. Post Removal system 1 functional and in use.
- 2.229. Amalgam gun Double ended 10 functional and in use.
- 2.230. Magnifying loops 1 functional and in use.

Materials for Operative Dentistry Department

- 2.231. Composite Resin Shade 5 packs.
- 2.232. Bonding agents 3 bottles.
- 2.233. Etchants 10 syringes.
- 2.234. Abrasive strips 5 packs.
- 2.235. Amalgam alloy 5 bottles functional and in use.
- 2.236. Temporary Filling Material 5 bottles functional and in use.
- 2.237. EDTA gel 5 syringes functional and in use.
- 2.238. Cresophene 1 bottles functional and in use.
- 2.239. GIC type 1 five bottles functional and in use.
- 2.240. GIC type 2 Ten bottles functional and in use.
- 2.241. Dycal 3 packs functional and in use.
- 2.242. Seal Apex 5 packs functional and in use.
- 2.243. Xylocain Spray/gel 2 bottles each functional and in use.
- 2.244. Sterlization liquid5 1 bottle concentrate functional and in use.
- 2.245. GIC Varnish 2 functional and in use.
- 2.246. Local anesthesia 10 Packs functional and in use.
- 2.247. Short anesthesia Needle 10 Packs.
- 2.248. Long anesthesia Needles 10 Packs functional and in use.
- 2.249. Paper Point 15-40 5boxes functional and in use.
- 2.250. Round Diamond burs 10 boxes functional and in use.
- 2.251. Slow speed round burs 05 boxes functional and in use.
- 2.252. Barb Broches 5 sets functional and in use.
- 2.253. Spreaders Assorted 10 sets functional and in use.
- 2.254. Gates glidden drills (assorted) 10 sets functional and in use.
- 2.255. Retraction cards 2 packs functional and in use.
- 2.256. Polishing brushes 1 box functional and in use.
- 2.257. Screw post Kit 2 kits functional and in use.
- 2.258. Dycal applicators 10 functional and in use.
- 2.259. GP Points 15-40 15 packs functional and in use.
- 2.260. Self-Seal Pouches 2 boxes functional and in use.

- 2.261. NiTi Files DH-4 5 Packs functional and in use.
- 2.262. NiTi Files DH-6 5Packs functional and in use.
- 2.263. NiTi Superfiles 5 PACKS functional and in use.
- 2.264. Amalgam finishing Kits 2functional and in use.
- 2.265. Rubber Dam Sheets 10 Packs functional and in use.
- 2.266. Carbide burs (assorted) 5 packs functional and in use.
- 2.267. Suture needles (assorted gauges) 1 pack functional and in use.
- 2.268. Suture Needles ½ circle 1 pack functional and in use.
- 2.269. Dentine Drills 1 Packs functional and in use.
- 2.270. Dentin Pins 1 packs functional and in use.

Prosthodontics:

The Department must have at least:

- 2.271. At least 02 model trimmer. Functional and in use.
- 2.272. 02 vibrators functional and in use.
- 2.273. 02 plaster cutting saws available and in use.
- 2.274. 01 spot welder with all the accessories should be available and functional.
- 2.275. 20 Bunsen burners available and in use.
- 2.276. 01 vacuum former machine functional and in use.
- 2.277. 20 sets of partials and 20 sets of complete edentulous Impression trays assorted available, functional and in use.
- 2.278. 10 articulators simple plane line available, functional and in use.
- 2.279. 01 curing tank facility available, functional and in use.
- 2.280. 01 dewaxing unit available, functional and in use.
- 2.281. 06 micro motors available, functional and in use.
- 2.282. 02 polishing unit available, functional and in use.
- 2.283. 10 semi adjustable articulators available, functional and in use.
- 2.284. Adequate no press and flasks available, functional and in use.
- 2.285. 2 dental lathe available, functional and in use.

- 2.286. Adequate no dental lathe stones assorted available, functional and in use.
- 2.287. 01 Compatable face bow available, functional and in use.
- 2.288. 10 air turbine available, functional and in use.
- 2.289. 10 air Motors available, functional and in use.
- 2.290. 05 packs Articulating paper available, functional and in use.
- 2.291. 2 Packs of GIC luting agents available, functional and in use.
- 2.292. Crown cutting diamond bur available, functional and in use.
- 2.293. Straight fissure short available, functional and in use.
- 2.294. Wheel disc shape available, functional and in use.
- 2.295. Tapered fissure round end available, functional and in use.
- 2.296. Round bars available, functional and in use.
- 2.297. 05 sets of flat end cylindrical burs, functional and in use.
- 2.298. 05 sets of round ends cylindrical burs, functional and in use.
- 2.299. 05 sets of flate end tapering burs , functional and in use.
- 2.300. 05 sets of round end tapering burs , functional and in use.
- 2.301. 05 sets of Goldstein burs, functional and in use.
- 2.302. 05 sets of finishing burs , functional and in use.
- 2.303. 05 sets of cone burs, functional and in use.
- 2.304. 05 sets of rugby shaped burs, functional and in use.
- 2.305. 05 sets of wheel burs, functional and in use.
- 2.306. 05 sets of interdental burs, functional and in use.
- 2.307. 03 Sets of Cavex imp. Paste available, functional and in use.
- 2.308. Impression compound available, functional and in use.
- 2.309. 10 packs Green stick available, functional and in use.
- 2.310. 50 kg Soft plaster available, functional and in use.
- 2.311. At least 2 boxes of rubber base impression material plus putty and wash available, functional and in use.
- 2.312. Self-cure acrylic powder 400g and 200ml liquid available, functional and in use.
- 2.313. The college must have at least 1 roll each of wire 0.7mm,0.8, half round available, functional and in use.
- 2.314. 20 suction tips available, functional and in use.

2.315. 05 crown and bridge removers functional and in use

Porcelain and Casting Laboratory

- 2.316. A porcelain furnace available, functional and in use.
- 2.317. A Sand blaster available, functional and in use.
- 2.318. 01 duplicating machine with duplicate flasks available, functional and in use.
- 2.319. 2 Heavy duty micro-motors available, functional and in use.
- 2.320. Adequate casting rings available, functional and in use.
- 2.321. A casting furnace available, functional and in use.
- 2.322. Electrolyte Polisher.
- 2.323. A electric induction casting machine available, functional and in use.
- 2.324. A wax pot available, functional and in use.
- 2.325. Adequate casting wax available, functional and in use.
- 2.326. Adequate metal grinding and polishing stones available, functional and in use.
- 2.327. Adequate porcelain stones available, functional and in use.
- 2.328. Adequate metals (cobalt-chromium and nickel-chromium alloys) available, functional and in use.
- 2.329. Adequate porcelain available, functional and in use.
- 2.330. Adequate crucible former available, functional and in use.
- 2.331. Adequate Vernier calliper available, functional and in use.
- 2.332. Adequate die saw available, functional and in use.
- 2.333. Adequate solder available, functional and in use.
- 2.334. Adequate duplicating gel available, functional and in use.
- 2.335. Porcelain brushes available, functional and in use.
- 2.336. Adequate finishing and polishing stones available, functional and in use.
- 2.337. Adequate investment material available, functional and in use.

Periodontology

The college must have at least:

Dental Diagnostics:

- 2.338. Goldman-Fox/Williams probe 30 functional and in use.
- 2.339. Nabers Probe/Furcation probe (colour coded) 30 functional and in use.
- 2.340. Tweezers 30 functional and in use.
- 2.341. Mouth Mirror Handle 30 functional and in use.

Oral Hygiene Instruction 2

- 2.342. Model & Brush functional and in use.

Scalpel handles; 10

- 2.343. Scalpel Handle (straight-round) functional and in use.

Papilla Elevators; 08

- 2.344. Papilla elevator-periosteal elevator 8.
- 2.345. Prichard Periosteal 8.

Curettes:

- 2.346. Gracey Curettes, 05 set functional and in use.
- 2.347. Universal Curettes 05 functional and in use.
- 2.348. Prichard Periodontal Surgical Curette 10 functional and in use.
- 2.349. Furcation Curettes 10 functional and in use

Ultrasonic Scaler:

- 2.350. Piezoelectric scalers i.e. EMS, Satalec, WoodPecker 12 functional and in use.
- 2.351. Coe-Pack periodontal dressing 05 packs.



Suturing material:

2.352. 4.0 Vicryl 10 packs.

Periodontal Surgical Files:

2.353. Sugarman file - db833r 04.

Bone Chisels – Periodontal:

2.354. 36/37 Rhodes Back Action Periodontal Chisel 04.

Suture forceps:

2.355. Suture forceps- 06.

Needle holder:

2.356. Straight Castroviejo Perma Sharp Needle Holder 18cm/7"" 08.

2.357. Mayo-Hegar Perma Sharp Needle Holder 16cm/6.25"" 08.

Scissors:

2.358. Delicate Scissors; e.g. (GOLDMANN-FOX or similar) 08.

Cheek retractors:

2.359. Cawood-Minnesota retractors-CRM2 10.

Instrument trays:

- 2.360. Small 06.
- 2.361. Medium 06
- 2.362. Polishing cups/ brushes 150 available and in use.
- 2.363. Autoclave if no CSSD available, functional and in use.
- 2.364. Sterilization pouch roll available, functional and in use.
- 2.365. 08 Slow Speed hand pieces available, functional and in use.
- 2.366. 04 high Speed hand pieces available, functional and in use.
- 2.367. 02 Mixing Spatulas available, functional and in use.
- 2.368. 02 Glass slabs available, functional and in use.
- 2.369. 1 Illuminator available, functional and in use.
- 2.370. 2 Fluoride Gel available, functional and in use.
- 2.371. 20 Suction Tips available, functional and in use.
- 2.372. 08 packets Disposable Gloves available, functional and in use.
- 2.373. 10 boxes disposable glasses available, functional and in use.
- 2.374. Electrocautery 1 functional and in use.
- 2.375. Electric Pulp Tester (EPT) 1 functional and in use.
- 2.376. Surgical Gauze: 2 X 2, 4 x 4 10 packs functional and in use.
- 2.377. Surgical Scrubs 30 sets functional and in use.

Instruments/equipment for Pediatric Dentistry

The Department must have:

- 2.378. Rubber Dam Kits 5 functional and in use.
- 2.379. Light Cure Machine 1 functional and in use.
- 2.380. Electric Pulp Tester 1 functional and in use.
- 2.381. Instruments for S.S Crowns 1 kit functional and in use.
- 2.382. Separators applying Forceps 2 sets functional and in use.
- 2.383. Band Pusher one functional and in use.

- 2.384. Band Seaters one functional and in use.
- 2.385. Wire cutter 2functional and in use.
- 2.386. Flat Pliers one set functional and in use.
- 2.387. Adam Pliers one set functional and in use.
- 2.388. Round pliers one set functional and in use.
- 2.389. Pediatric Extraction Forceps Full sets 3 sets functional and in use.
- 2.390. Extraction Forceps Full sets For Permanent teeth. 3 sets functional and in use.
- 2.391. All types of Elevators 3 sets functional and in use.
- 2.392. All Filling instruments (Examination and Filling instruments), 10 sets functional and in use.
- 2.393. All Endodontic instruments 5 sets functional and in use.
- 2.394. Prophy Jet for Prophylaxis one set functional and in use.
- 2.395. MTA Carrier (Messing gun) one functional and in use.
- 2.396. Radiographic illuminator one functional and in use.
- 2.397. Impression Trays for Children and Adolescent 3 sets functional and in use.
- 2.398. Bowl and Spatula two each functional and in use.
- 2.399. Anesthesia Cartridge gun 5 each functional and in use.
- 2.400. Amalgamator one functional and in use.
- 2.401. Mortar and pestle two functional and in use

Materials for Pediatric Dentistry

- 2.402. Calcium Hydroxide (Non setting) 5 bottles functional and in use.
- 2.403. Calcium Hydroxide Setting packs functional and in use.
- 2.404. Calcium hydroxide with Idoform (Vitapex) 2 functional and in use.
- 2.405. MTA (Mineral Trioxide Aggregate) 1 packs functional and in use.
- 2.406. Zinc Oxide Powder one functional and in use.
- 2.407. Eugenol one pack functional and in use.
- 2.408. Zinc Oxide Eugenol Cement 5 packs functional and in use

- 2.409. Composite filling Materials with Etchant and Bonding agent two sets functional and in use.
- 2.410. Fissure sealants two sets functional and in use.
- 2.411. Glass Ionomer Cement three packs functional and in use.
- 2.412. Stainless Steel crowns (Pre formed) one pack functional and in use.
- 2.413. Strip Crowns one pack functional and in use.
- 2.414. All Materials for Endodontic treatments of Permanent Teeth three sets functional and in use.
- 2.415. All Diamond Burs for cavity Preparations of Permanent and Primary teeth 10 each functional and in use.
- 2.416. Dental Amalgam 5 packs functional and in use.

Oral Medicine Department

The Department must have at least:

- 2.417. Examination instruments (mirror, probe, tweezer) 10 sets Functional and in use.
- 2.418. Two Anaesthesia syringe and needles Functional and in use.
- 2.419. Disposable gloves packets, disposable masks packets and disposable syringes. Functional and in use.
- 2.420. X ray illuminator one Functional and in use.
- 2.421. 2 High Speed Hand pieces with Burs Functional and in use.
- 2.422. 2 Thermometer Functional and in use.
- 2.423. BP apparatus one Functional and in use Functional and in use.
- 2.424. Stethoscope one Functional and in use.
- 2.425. Emergency kit containing all emergency medications used in dealing medical emergencies Functional and in use.
- 2.426. Sterilization pouch roll one, Functional and in use.
- 2.427. Autoclave one Functional and in use

Dental and Maxillofacial Radiology Dept.

The Department must have:

- 2.409. Peripheral X-ray Machines, functional and in use.
- 2.410. OPG X-ray Machines, functional and in use.
- 2.411. CEPH X-ray Machines, functional and in use.
- 2.412. CBCT X-ray Machines, functional and in use (Quality Standard).
- 2.413. The hospital must have three Lead Aprons.
- 2.414. One TLD, functional and in use.
- 2.415. Four Lead Shield/Partitions functional and in use.
- 2.416. Film Badge/Radiation detector & thyroid shields, functional and in use

Anatomy Major

Anatomy: (Dissection hall)

The college may have at least:

- 2.417. 01 Cadavers with storing facility. (Quality Standard).
- 2.418. One Set of appropriate dissecting instrument sets for two cadavers available, functional and in use. (Quality standard).
- 2.419. 50 Stools (Dissection Hall) Functional and in use.
- 2.420. Six half dissection tables available, functional and in use. (Quality Standard).

Anatomy: (histology Laboratory)

The College must have at least:

- 2.421. Two histology slide sets available, functional and in use.
- 2.422. Twenty five binocular microscopes available, functional and in use.
- 2.423. One slide projecting microscope/ one penta-head Multi -viewing Biological Microscope available, functional and in use.
- 2.424. One large refrigerator available, functional and in use.
- 2.425. One computer in the department with internet facility available, functional and in use. (Quality standard).

- 2.426. One scanner available, functional and in use in the department. (Quality standard)
- 2.427. One color laser printer available, functional and in use. (Quality standard).
- 2.428. Overhead projector 1

Anatomy: (Museum)

The college must have at least:

- 2.429. Two torsos (Male and Female) model available, functional and in use.
- 2.430. One cross sectional torso model available, functional and in use.
- 2.431. One upper limbs (muscles, vessels, nerves and joints) anatomical model available, functional and in use.
- 2.432. One lower limbs (muscles, vessels, nerves and joints) anatomical model available, functional and in use.
- 2.433. Eight head and neck (muscles, vessels, nerves and joints) anatomical model available, functional and in use.
- 2.434. Five special senses anatomical model available, functional and in use.
- 2.435. Five brain anatomical model available, functional and in use.
- 2.436. One histology models available, functional and in use.
- 2.437. One embryology models available, functional and in use.
- 2.438. Five pelvis models available, functional and in use.
- 2.439. Four abdominal viscera models available, functional and in use.
- 2.440. Two liver models available, functional and in use.
- 2.441. Two kidney models available, functional and in use.
- 2.442. Three CVS models available, functional and in use.
- 2.443. Three respiratory system models available, functional and in use.
- 2.444. Seventy five human's loose bones available, functional and in use.
- 2.445. Two articulated skeletons available, functional and in use.
- 2.446. One articulated vertebral column available, functional and in use.
- 2.447. One anatomical chart of every system available, functional and in use.
- 2.448. One cross sectional body model available, functional and in use.
- 2.449. Assorted anatomy CDs available, functional and in use.
- 2.450. One embryology slides set per hundred available, functional and in use.
- 2.451. One neuro-anatomy slide set available, functional and in use.

Anatomy (Minor)

Anatomy: (Dissection hall)

- 2.452. The college must have at least Fifty stools set per hundred available, functional and in use.
- 2.453. Anatomy CDs one set.

Anatomy: (histology laboratory)

The college may have at least:

- 2.454. One computer with internet facility available, functional and in use. (Quality standard).
- 2.455. One scanner available, functional and in use. (Quality Standard).
- 2.456. One color laser printer available, functional and in use. (Quality).
- 2.457. 50 stools available, functional and in use.

Anatomy: (Museum)

- 2.458. The college must have at least one multimedia available, functional and in use for teaching purpose.
- 2.459. The college must have at least two white boards available, functional and in use for teaching purpose.

Physiology (Major)

The college must have at least:

- 2.460. Fifteen sphygmomanometers available, functional and in use.
- 2.461. Ten microscope Binoculars available, functional and in use.
- 2.462. Twenty haemocytometers available, functional and in use.
- 2.463. Fifteen haemoglobin meters available, functional and in use.

- 2.464. Ten complete perimeters available, functional and in use.
- 2.465. Twenty-five ESR pipettes available, functional and in use.
- 2.466. Twenty percussion hammers available, functional and in use.
- 2.467. Two oxygen cylinders with flow meters available, functional and in use.
- 2.468. Thirty clinical thermometers available, functional and in use.
- 2.469. Five student kymographs available, functional and in use.
- 2.470. Two ECG machines per 100 hundred students available, functional and in use.
- 2.471. One centrifuge machine available, functional and in use.
- 2.472. Five microhaematocrit reader available, functional and in use.
- 2.473. One microhematocrit centrifuge available, functional and in use.
- 2.474. The college must have at least thirty stethoscopes available, functional and in use.
- 2.475. Two data acquisition system available, functional and in use.
- 2.476. One finger pulse oximeter available, functional and in use.

Physiology (Minor)

- 2.477. Fifteen stop watches available, functional and in use.
- 2.478. Fifteen tuning forks of different frequencies available, functional and in use.
- 2.479. Five vision E type charts/Snellen's charts available, functional and in use.
- 2.480. Five Ishihara charts available, functional and in use.
- 2.481. Two weighting machines available, functional and in use.
- 2.482. An audiometer available, functional and in use.
- 2.483. An examination couch available, functional and in use.
- 2.484. A fire extinguisher available, functional and in use.
- 2.485. A Jaeger's chart.
- 2.486. An ophthalmoscope.
- 2.487. A refrigerator.
- 2.488. Stethoscope (complete), with assembly available, functional and in use.
- 2.489. Assorted torches available, functional and in use.
- 2.490. Aassorted tourniquets available, functional and in use.

- 2.491. One water bath available, functional and in use.
- 2.492. One beaker 100ml graduated available, functional and in use.
- 2.493. One beaker 500ml graduated available, functional and in use.
- 2.494. One blood group tiles available, functional and in use.
- 2.495. Assorted capillary tubes (heparinised) available, functional and in use.
- 2.496. One treadmill or an aergometer cycle available, functional and in use.
- 2.497. Assorted capillary tubes (plain) available, functional and in use.
- 2.498. Aassorted centrifuge tubes with cork available, functional and in use.
- 2.499. Assorted EDTA tube available, functional and in use.
- 2.500. Assorted ESR pipette available, functional and in use.
- 2.501. One glass rod available, functional and in use.
- 2.502. One magnifying glass available, functional and in use.
- 2.503. Assorted microscope slides.
- 2.504. Assorted Petri dishes (various sizes).
- 2.505. One spirit lamp/gas burner available, functional and in use.
- 2.506. One thermometer available, functional and in use.
- 2.507. Assorted Win Trobe"s tubes available, functional and in use.
- 2.508. One antisera A, B and D available, functional and in use.
- 2.509. One cedar wood oil available, functional and in use.
- 2.510. One distilled water available, functional and in use.
- 2.511. One bottle of HCL.
- 2.512. One bottle of Leishman's stain available, functional and in use.
- 2.513. One bottle of methylated spirit available, functional and in use.
- 2.514. One bottles of platelet solution (Ree"s and Ecker's solution) available, functional and in use.
- 2.515. One set of pregnancy test kits available, functional and in use.
- 2.516. Assorted pregnancy strips available, functional and in use.
- 2.517. One bottle of RBC solution available, functional and in use.
- 2.518. One bottle of WBC solution available, functional and in use.
- 2.519. One bottle of xylene available, functional and in use.

Biochemistry (Major)

The college must have at least:

- 2.520. Two clinical PH meters available, functional and in use.
- 2.521. One large size incubator available, functional and in use.
- 2.522. Two electronic balance available, functional and in use.
- 2.523. One thermal cycler available, functional and in use.
- 2.524. One electrophoresis available, functional and in use.
- 2.525. Two glucometers available, functional and in use.
- 2.526. A bench top centrifuge for 100 students

Biochemistry (Minor)

- 2.527. One water distillation unit (operation china 10 Liters) available, functional and in use.
- 2.528. One electric water bath available, functional and in use.
- 2.529. Five stop watches available, functional and in use.
- 2.530. One hot box oven available, functional and in use.

Pharmacology (Major)

The college must have at least:

- 2.531. Three audio-visual facility and assorted experimental CDs for pharmacology practical's available, functional and in use.
- 2.532. Two BP apparatus available, functional and in use.
- 2.533. Two stethoscopes available, functional and in use.
- 2.534. One power laboratory available, functional and in use.

Pharmacology (Minor)

- 2.276. One electronic balance available, functional and in use.

Pathology (Major)

- 2.535. Fifteen microscope binoculars available, functional and in use.
- 2.536. One Microscope multi head (5 piece) available, functional and in use.

Pathology (Minor)

The college must have at Least:

- 2.537. Four stain dropping bottles (250ml) available, functional and in use.
- 2.538. Four wash bottles available, functional and in use.
- 2.539. Four adjustable staining racks available, functional and in use.
- 2.540. Two 14 cubic feet refrigerators available, functional and in use.
- 2.541. One - (minus) 20 C deep freezer available, functional and in use.
- 2.542. Four glass beaker (graduated) (Pyrex) 500 ml graduated available, functional and in use.
- 2.543. Four glass cylinder (graduated) (Pyrex) 500 ml graduated available, functional and in use.
- 2.544. Four water stills available, functional and in use.
- 2.545. Feast one incubator 37 c large available, functional and in use.t all time.
- 2.546. One floating bath available, functional and in use.
- 2.547. Twenty Staining jars available, functional and in use.
- 2.548. One automatic tissue processor available, functional and in use. 2.600. One embedding station available, functional and in use.
- 2.549. One water Bath electric available, functional and in use. 2.602. One paraffin embedding bath available, functional and in use.
- 2.550. One oven-wax embedding (100 c) available, functional and in use. 2.604. One Microtome available, functional and in use.
- 2.551. One knife sharpener available, functional and in use. 2.606. A large incubator available, functional and in use.
- 2.552. One defibrillator available, functional and in use.
- 2.553. Two ECG machine (at least Triple Channel) available, functional and in use.
- 2.554. One video endoscopic system with upper and lower sets available, functional and in use.
- 2.555. One Trolley for endoscopes available, functional and in use.
- 2.556. Echo cardiograph 2D with colour Doppler available, functional and in use.
- 2.557. One ETT machine available, functional and in use.
- 2.558. Four complete nebulizers available, functional and in use. 2.614. 10 BP apparatus available, functional and in use.

- 2.559. 10 stethoscopes available, functional and in use. 2.616. 4 pulse oximeters available, functional and in use. 2.617. 6 glucometers available, functional and in use.
- 2.560. 2 cardiac monitors available, functional and in use. 2.619. 10 thermometers available, functional and in use. 2.620. 3 torches available, functional and in use.
- 2.561. 3 measuring tapes available, functional and in use. 2.622. 4 hammers available, functional and in use.
- 2.562. 2 tuning forks (128Hz) available, functional and in use.
- 2.563. 5 examination couches available, functional and in use.

General Surgery

The hospital must have at least:

- 2.564. 8 basic standard surgical sets available, functional and in use.
- 2.565. 1 thoracic surgical set available, functional and in use.
- 2.566. 1 vascular surgical set available, functional and in use.
- 2.567. 1 paedurg sets available, functional and in use.
- 2.568. 1 plastic surgery set available, functional and in use.
- 2.569. 2 surgical diathermies (Monopolar and Bipolar) machines available, functional and in use.
- 2.570. 1 harmonic/Ligature machine available, functional and in use.
- 2.571. 2 fibre optic colonoscope (Diagnostic and therapeutic) or flexible sigmoidoscope available, functional and in use.
- 2.572. 2 rigid sigmoidoscope and proctoscope available, functional and in use.
- 2.573. 2 complete laparoscopic surgical sets available, functional and in use.
- 2.574. 1 microsurgical instrument set available, functional and in use.
- 2.575. 1 transurethral resection of prostate surgical set available, functional and in use.
- 2.576. 2 cystoscopes (diagnostic and therapeutic) available, functional and in use.
- 2.577. One fibre optic oesophagoscope/gastroscope available, functional and in use.
- 2.578. 1 fibre optic bronchoscope available, functional and in use.
- 2.579. 1 portable X-ray machine, operation table, and radiographic film cassette facilities e.g. for per operative cholangiogram. Image intensifier with C-arm and double monitors available, functional and in use.
- 2.580. 3 suction machines available, functional and in use.

- 2.581. 1 defibrillator available, functional and in use.

Operating Rooms

The hospital must have:

- 2.582. Recovery area with central oxygen and suction and monitoring facilities in Dental and Maxillofacial Operating room.
- 2.583. Monitoring facilities in theatre.
- 2.584. One image intensifier in Dental and Maxillofacial Operating room.
- 2.585. Facilities for resuscitation in Dental and Maxillofacial Operating room.
- 2.586. Two Anesthesia machines with ventilators in Dental and Maxillofacial Operating room.
- 2.587. Mono polar Diathermy machine in each theatre.
- 2.588. Bipolar Diathermy machine in each theatre.

Central Sterilization and Services Department (CSSD)

The hospital must have:

- 2.589. Instrument washing area, functional and in use.
- 2.590. Linen Washing area, functional and in use.
- 2.591. One Washer disinfector, functional and in use.
- 2.592. B-Class Autoclaves with 134 C Temp. 500ltrs.
- 2.593. One Ehtylene dioxide/Formaldehyde gas sterilizer, functional and in use.
- 2.594. One Sealing Machines, functional and in use.
- 2.595. Chemical Sterilization facilities, functional and in use.
- 2.596. Storage & Distribution Counter, functional and in use.

Emergency Room

Note: *(The Equipment of Basic Medical Sciences, like Physiology anatomy Biochemistry, Histology, General Pathology, General Surgery and General Medicine can be Shared amongst Associated Medical and Dental Colleges)*



Recognition Standard 3: Faculty and Staff

The requirements mentioned in this standard pertain to faculty and staff of the college. The numbers written in this section relate to admission of a class of 50 students.

General Requirements

- 3.1. The college must have faculty attendance of at least 70% verifiable through biometric attendance.
- 3.2. The college must have contracts with all faculty members, with remuneration clearly specified.
- 3.3. The college must be able to demonstrate payment of the remuneration to the faculty members through banking channel every month for the last 12 months.

Anatomy

The college must have at least:

- 3.4. One Professor or Associate Professor or Assistant Professors of Anatomy.
- 3.5. Two demonstrators of Anatomy, or equivalent number in case of integrated curriculum

Physiology

The college must have at least:

- 3.6. One Professor or Associate Professor or Assistant Professors of Physiology.
- 3.7. Two demonstrators of Physiology.



Biochemistry

The college must have at least:

- 3.8. One Professor or Associate Professor or Assistant Professors of Biochemistry.
- 3.9. Two demonstrators of Biochemistry.

Pharmacology

The college must have at least:

- 3.10. One Professor or Associate Professor of pharmacology or Assistant Professors of Pharmacology.
- 3.11. Two demonstrators of pharmacology.

Pathology

The college must have at least:

- 3.12. One Professor or one Associate Professor or Assistant Professors of Pathology.
- 3.13. Two demonstrators of pathology.

Oral Biology

The college must have at least:

- 3.14. One Professor, or one Associate Professor and one Assistant Professors of Oral Biology.
- 3.15. Two Demonstrators of Oral Biology.

Oral Pathology

The college must have at least:

- 3.16. One Professor or One Associate Professor and one Assistant Professors of Oral Pathology.
- 3.17. Two Demonstrators of Oral Pathology

Dental Materials

The college must have at least:

- 3.18. One Professor or Associate Professor and one Assistant Professors of Dental Material.
- 3.19. Two demonstrators of Dental Material

Preventive and Dental Public Health

The college must have at least:

- 3.20. One Professor or one Associate Professor and one Assistant Professors of Preventive and Dental Public Health.
- 3.21. Two demonstrators of Preventive and Dental Public Health.

Dental Education and Research Department:

The College must have at least:

- 3.22. One Faculty Member as Assistant Professor Or Above of Dental Education and Research Department, (The Faculty member having Masters in /health Professional Education or a higher qualification along with his basic Dental qualification/post graduate dental qualification will be the head of Department of Medical/ Dental Education)
- 3.23. Two Demonstrators of Dental Education and Research Department, having Certificate course in Medical/Dental Education

Clinical Sciences

General Medicine

The college must have at least:

- 3.24. One Faculty members of General Medicine as Assistant Professor or above.
- 3.25. The college must have at least one Junior Registrar/Trainee Registrar of General Medicine

General Surgery

The college must have at least:

- 3.26. One faculty members of General Surgery as Assistant Professor or above.
- 3.27. The college must have at least one Junior Registrar/Trainee Registrar of General Surgery.

Oral and Maxillofacial Surgery

The College must have at least:

- 3.28. One Professor/ One Associate Professor, One Assistant Professor and One Senior Registrar of Oral and Maxillofacial Surgery.
- 3.29. The college must have at least Three Demonstrator of Oral and Maxillofacial Surgery.

Operative or restorative or conservative dentistry

The College Must Have:

- 3.30. One Professor/ One Associate Professor, One Assistant Professor and One Senior Registrar of Operative or Restorative or Conservative Dentistry.
- 3.31. Three Demonstrator or Specialist Registrar/Senior Registrar of Operative or restorative or conservative dentistry.

Prosthodontics

The College must have at least:

- 3.32. One Professor/ One Associate Professor, One Assistant Professor and One Senior Registrar of Prosthodontics.
- 3.33. Three Demonstrator of Prosthodontics.

Periodontology

The College must have:

- 3.34. One Professor/ One Associate Professor, One Assistant Professor and One Senior Registrar of periodontology.
- 3.35. Three Demonstrator of Periodontology

Optional Specialty (Quality Standards)

The college must have at least:

- 3.36. One faculty members of Optional Specialty as Assistant Professor and one senior registrar. Faculty members can be hired from allied specialties till 2025 without being registered in these optional specialties.

Optional specialties

1. Dental Radiology
2. Endodontics
3. Geriatric Dentistry
4. Implantology
5. Forensic Dentistry

Orthodontics

The college must have at least:

- 3.37. One Professor/ One Associate Professor, One Assistant Professor and One Senior Registrar of orthodontics.
- 3.38. Three Demonstrator of Orthodontics.

Oral Medicine

The college must have at least:

- 3.39. Two faculty members of Oral Medicine as Assistant Professor or above.
- 3.40. Two Demonstrator or Registrar/Senior Registrar of Oral Medicine

Note: (Oral Medicine, will be a separate Subject taught in Third year, Due to dearth of Specialist in Oral Medicine, it can be taught by faculty of allied subject i.e., Oral and Maxillofacial Surgery, until the availability of Specialists till 2023)

Paediatric Dentistry

The college must have at least:

- 3.41. One faculty members of Paediatric Dentistry as Assistant Professor or above.
- 3.42. Two Demonstrator or Registrar/Senior Registrar of Paediatric Dentistry

Note: (Paediatric Dentistry, will be a separate Subject taught in Final year, Due to dearth of Paediatric Dental Specialist in the country, it can be taught by faculty of allied subject i.e., Operative Dentistry until the availability of Specialist paediatric Dentists till 2023)

(For All Faculty Position at Basic and Clinical Sciences level, Extra Credentials will be awarded to institutes having Senior and qualified Faculty Members at Associate and Professor Levels)

Other Staff

The college must have at least:

- 3.43. 30 Dental Surgery Assistants.
- 3.44. 4 Prosthetic Technicians.
- 3.45. One Ceramic Technician.
- 3.46. One Orthodontics technician.
- 3.47. Four Laboratory Technicians (Oral Biology, Oral pathology, Community dentistry, Simulator laboratory).
- 3.48. Ten Laboratory Assistants.
- 3.49. Two Dental Radiographers.
- 3.50. One Store keeper.
- 3.51. Two Store Assistant.
- 3.52. One CSSD Technician.
- 3.53. Two CSSD Assistant.
- 3.54. One Photographer.
- 3.55. Three Audio-visual Projectionists.
- 3.56. One Biomedical Engineer or Technician.
- 3.57. One Biostatistician.
- 3.58. One Clinical Psychologist.
- 3.59. 6 Staff Nurses, and two OT nurses for Oral and Maxillofacial Surgery Ward/ OT

Accident and Emergency

The college must have at least:

- 3.60. One faculty member Assistant Professor or above; or one consultant in Accident and Emergency for HDU or ICU and can be shared with associated medical college.
- 3.61. The College must have one registrar of oral and Maxillofacial Surgery Ward and to also do the duty as casualty medical officers (CMO)

Anaesthesia

The college must have at least:

- 3.62. One Assistant Professor of Anesthesia or above.

Support Departments

The College must have appropriately staffed:

- 3.63. Library managed by one librarian and one deputy librarian.
- 3.64. Quality Assurance Cell.
- 3.65. IT Department.
- 3.66. Student Section.
- 3.67. Security Department.
- 3.68. Finance Department.
- 3.69. Maintenance Department.

Recognition Standard 4: Teaching Hospital

The requirements in this section pertain to admission of class of 50 students.

General

- 4.1. The college must provide clinical teaching to students in a hospital with a functioning Electronic Health Management Information System or computerized registration of patients in all clinical departments, with capabilities of recording of:
 - 4.1.1. Number of patient encounters in OPD
 - 4.1.2. Number of admissions in IPD
 - 4.1.3. Number of procedures in OPD
 - 4.1.4. Number of procedures / surgeries in IPD
 - 4.1.5. Type of procedures / surgeries in OPD and IPD
 - 4.1.6. Calculating Length of Stay (LOS) in IPD
 - 4.1.7. Bed Occupancy
 - 4.1.8. Lab Tests Volume
 - 4.1.9. Biometric Attendance
- 4.2. The teaching hospital must not charge any accommodation or consultation fees from the patient on not for profit beds (25% of total number of beds), while laboratory services, medicine and supplies, if any, must only be charged from the patient on a no-profit basis.
- 4.3. Clinical teaching staff should have separate work stations and offices for assistant professors, associate professors, and professors.

Clinical Specialties, Beds and Units

For a measurable element to be marked met, the bed has to be occupied by a patient of the same specialty at the time of inspection and prior to inspection verified through the HMIS/ computerized data.

Hospital Beds

If the Dental College is associated with Medical College, same beds as medical college may be utilized. For standalone dental college,

- 4.4. The hospital(s) must have Internal Medicine specialty with a minimum of 20 inpatient

- beds.
- 4.5. The hospital(s) must have General Surgery specialty with a minimum of 20 inpatient beds, excluding post-operative recovery beds.
 - 4.6. The hospital(s) must have Maxillofacial Surgery specialty with a minimum of 20 inpatient beds.
 - 4.7. Optional: The hospital(s) may have a High Dependency Unit with a minimum of 2 inpatient beds with monitoring facilities.
 - 4.8. The hospital(s) must have at least one bed with monitoring facilities in emergency room

Dental Units

Dental units listed below include those installed in faculty offices. Dental units must be fully functional with all accessories and stools.

The hospital(s) must have:

- 4.9. Oral and Maxillofacial Surgery specialty with a minimum of 14 dental units.
- 4.10. Orthodontics specialty with a minimum of 6 dental units.
- 4.11. Prosthodontics specialty with a minimum of 12 dental units.
- 4.12. Operative Dentistry specialty with a minimum of 20 dental units.
- 4.13. Periodontology specialties with minimum of 16 dental units.
- 4.14. Paediatric Dentistry specialties with minimum of 5 dental units.
- 4.15. Oral Diagnosis and Oral Medicine specialties with minimum of 2 dental units.

(Total of (75) Mandatory Units the Rest of the units is (quality standard), in Optional Specialties). According to the work load, flexibility of 20% dental units in different departments by dental college.

- 4.16. The hospital must have one of the following optional dental specialties by 2023
 - 4.16.1. Dental Radiology
 - 4.16.2. Endodontic
 - 4.16.3. Geriatric Dentistry
 - 4.16.4. Implantology
 - 4.16.5. Forensic Dentistry

Patient Load

Patient load is to be verified from the hospital's HMIS.

Outpatient Load

The hospital(s) should have had minimum OPD of more than:

- 4.17. 600 patients per month averaged for the past 12 months in General Medicine.
- 4.18. 15 patients per month averaged for the past 12 months in Orthodontics.
- 4.19. 600 patients per month averaged for the past 12 months in Operative Dentistry.
- 4.20. 500 patients per month averaged for the past 12 months in Periodontology.
- 4.21. 20 patients per month averaged for the past 12 months in Prosthodontics.
- 4.22. 500 patients per month averaged for the past 12 months in Oral and Maxillofacial Surgery.
- 4.23. 600 patients per month seen averaged for the past 12 months in General Surgery.
- 4.24. 100 patients per month averaged for the past 12 months in Oral Medicine.
- 4.25. 60 patients per month averaged for the past 12 months in Paediatric Dentistry

Inpatient

- 4.22. Total bed occupancy of the hospital should be at least 70% in the past 12 months.
- 4.23. In each of the specialty in the hospital, the bed occupancy should be at least 50% in the past 12 months.

Procedures

The hospital(s) should have had minimum of:

- 4.24. 2000 procedures performed in the past 12 months in General Medicine.
- 4.25. 200 procedures performed in the past 12 months in Orthodontics.
- 4.26. 500 procedures performed in the past 12 months in Operative Dentistry.
- 4.27. 400 procedures performed in the past 12 months in Periodontology.
- 4.28. 200 procedures performed in the past 12 months in Prosthodontics.
- 4.29. 400 procedures performed in the past 12 months in Oral and Maxillofacial Surgery.
- 4.30. 800 procedures performed in the past 12 months in General Surgery.
- 4.31. 200 procedures/cases performed in the past 12 months in Oral Medicine
- 4.32. 250 procedures performed in the past 12 months in Paediatric Dentistry.

Facilities

Each of the hospital(s) must have:

- 4.33. Hospital pharmacy, both for indoor and outdoor patients.
- 4.34. Pharmacy in Emergency area.
- 4.35. Trained and qualified pharmacists, with minimum qualification of Pharm D.
- 4.36. Faculty workstations or offices for each of the faculty member.
- 4.37. Resuscitation area with all equipment.
- 4.38. Two fully equipped operating rooms for Dental and Maxillofacial surgery with appropriately furnished Pre-anesthesia area.
- 4.39. A Central Sterilization Services Department (CSSD) (Quality Standards).
- 4.40. Store Department.
- 4.41. A Dental and Maxillofacial Radiology Department

2. Decision Rules

Recognition evaluation is performed by inspectors appointed by PMDC to verify that a College meets the infrastructure, equipment, faculty, staff and teaching hospital requirements.

In order for a college to qualify for recognition, the college must meet all of the standards as per the following:

1. The College meets all the legal requirements
2. The College meets all the infrastructure requirements
3. The College meets at least 90% of equipment requirements
4. The College meets at least 90% of the faculty requirements
5. The College meets at least 90% of the teaching hospital requirements

After satisfying all the above requirements, the college is recommended for a performance evaluation, after which the college will be recognized by PMDC for admitting students to the program.

For new colleges, applying to PMDC for recognition for the first time, a complete performance evaluation may not be performed. Instead only components related to curriculum design, assessment methods, faculty, institutional safety and hospital safety may be performed. Full performance evaluation may be performed within 12 months of the start of education in the college.

The decision rules for meeting the requirements outlined above are as:

Decision Rule Number 1 (Legal):

- If all the legal requirements of college are verified to be met, the requirement for this standard are deemed to be met.
- If in any of the legal requirements are not met, the college will be deemed to have not met the requirements of this standard.

Decision Rule Number 2 (Infrastructure):

- If all the measurable elements of infrastructure of college are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 10% of the measurable elements regarding infrastructure requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met
- If in more than 25% of measurable elements of the infrastructure compliance is not met the college will be deemed to have not met the requirements of this standard.

Decision Rule Number 3 (Equipment):

- If up to 90% of the measurable elements of equipment of college are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding major equipment requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met.
- If in more than 25% of measurable elements of the major equipment compliance is not met the college will be deemed to have not met the requirements of this standard.

- If in any of the measurable elements, the equipment specified as „minor“ are not available or functional, the college will be given 6 months to rectify the deficiency and get it verified by PMDC

Decision Rule Number 4 (Faculty and Staff):

- If up to 90% of the measurable elements of faculty of college are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding faculty requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met.
- If in more than 25% of measurable elements of the faculty and staff compliance is not met the college will be deemed to have not met the requirements of this standard.

Decision Rule Number 5 (Teaching Hospital):

- If 4.2 and 4.3 of the section „General“ are found to be non-compliant, the requirements of this standard are deemed to be not met.
- If up to 90% of the measurable elements in sections other than „General“ of teaching hospital are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding teaching hospital requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite hospital visit, the requirement for this standard are deemed to be met
- If in more than 25% of measurable elements of the teaching hospital compliance is not met the college will be deemed to have not met the requirements of this standard.



3. Methodology

Recognition Evaluation (Pre-requisite):

Recognition evaluation is performed to evaluate adherence of the College with the “PMDC Standards for Recognition of Medical and Dental College” to ensure adequate and safe teaching facilities are available for the students of the college. Recognition evaluation is carried out by team of inspectors. Details of evaluation methodology are described in this document. The recognition granted to the medical college shall be restricted to the primary site and shall not be applicable to sub campus (es) or branch (es)

The process of evaluation is explained in detail as below:

Medical and Dental College's Responsibilities

For a recognition inspection, the university with which the medical college is a constituent or affiliated will conduct a self-evaluation based on the standards in this document based on data of twelve-month period prior to the visit and submit the required copies to the Inspection Cell at PMDC at least one month prior to the visit.

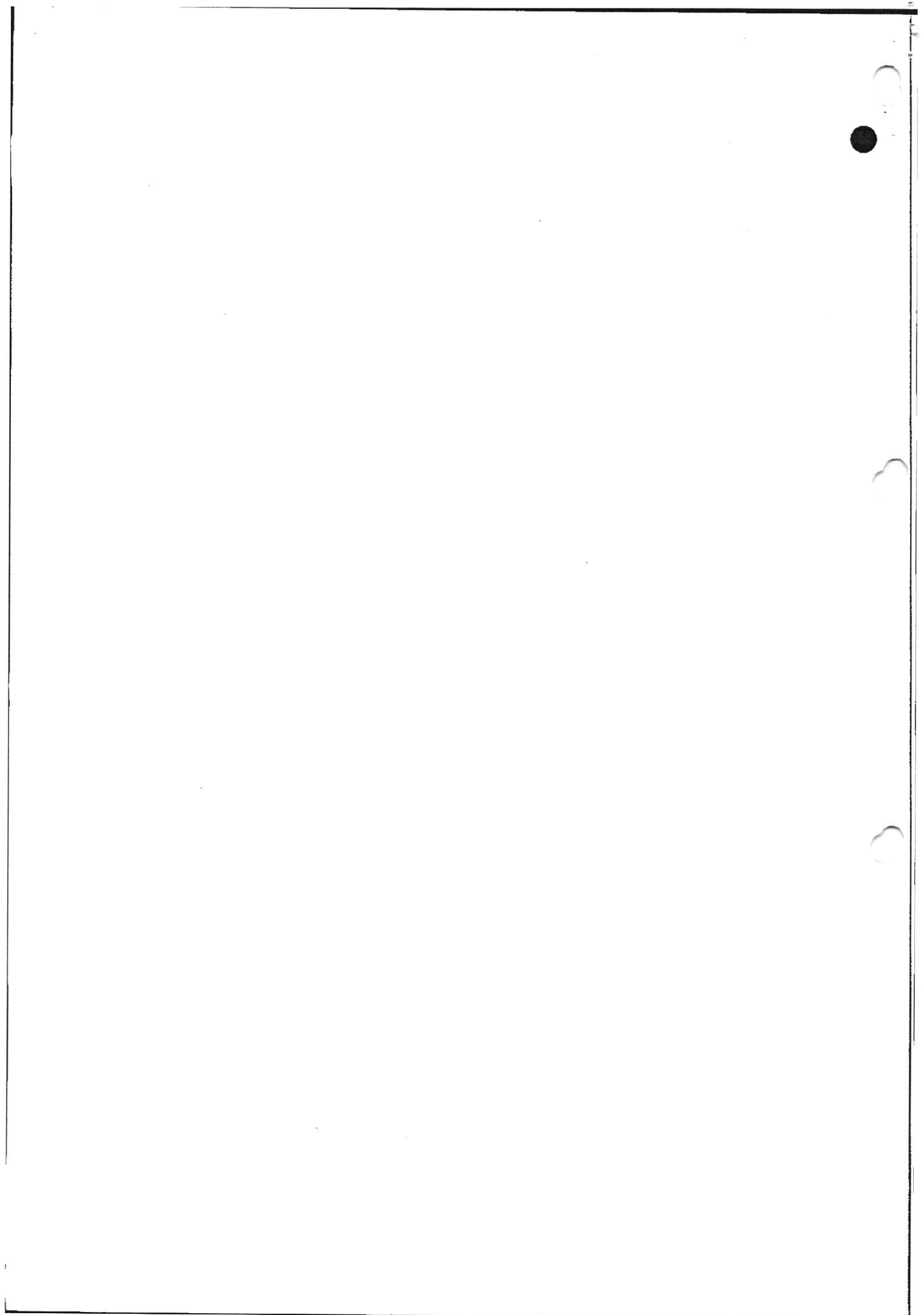
The Inspection Cell of PMDC shall select inspectors for the recognition evaluation survey at least two weeks prior to the survey.

Inspection Coordinator

In preparation for the inspection visit, the Dean should select a person to coordinate the logistics of the visit. This person will serve as the liaison with the PMDC Inspection Cell about preparations, scheduling and site visit arrangements.

Provision of an Inspectors Room at the College

The team will require a dedicated room at the college. The room should have furniture enough to accommodate the team. It should, preferably, be close to the Dean's office, so that staff can control access and adjust the schedule as needed. The Dean's office should provide any additional material the team may need in the room, including copies of self-evaluation reports and any other documents requested by the team



The Inspection Schedule

The PMDC Inspection Cell in collaboration with the college and the team finalizes the schedule at least two weeks before the team arrives.

The administrators of clinical facilities should be advised that surveyors may be visiting patient care units.

Typical Survey Plan

A typical inspection of a college consists of:

- 1. Infrastructure Evaluation:** This evaluation is conducted by an architect appointed by PMDC along with two civil technologists.

College Responsibility: For this evaluation, the medical and Dental college is required to submit a CAD drawing (in soft) of its layout to PMDC Quality and Accreditation Cell. College shall also ensure that relevant engineers or technologists are available during the site visit.

PMDC Responsibility: The appointed architect shall study the drawing and verify that the drawing meets the requirements for covered area by the PMDC. In case, the drawing meets the requirements of PMDC standards, architect and two civil technologists will visit the college for one day and verify the actual building layout with the CAD Drawings of the college.

Duration: Typical duration of this evaluation shall be one-day.
- 2. Equipment Evaluation:** This evaluation is conducted by a team of a bio-medical engineer and assisting quantity-surveyors to verify that the equipment required in each section of the college is available. Basic Sciences faculty member as part of the inspection team may assist in ascertaining the suitability of equipment in the laboratory and Clinical Sciences faculty member as part of the inspection team may assist in ascertaining the suitability of equipment in the hospital.

College Responsibility: For this evaluation, the college is required to submit self-evaluation of the inventory of all equipment required by the standards. This includes the equipment required in the teaching hospital. College shall also ensure that relevant engineers or technologists at the college and hospital are available during the visit

PMDC Responsibility: The appointed engineers and technologists shall study the self-evaluation. In case, the self-evaluation meets the requirements of PMDC standards, biomedical engineers and a quantity-surveyor shall verify all the medical equipment in the college and teaching hospital.

Duration: Typical duration of this evaluation shall be two-days.

3. **Faculty Evaluation:** This evaluation is conducted by two inspectors appointed by PMDC, one Health Professional Education Expert and one Health Institution Management Expert.

College Responsibility: For this evaluation, it is the college's responsibility to do a self-evaluation of the basic sciences and clinical faculty of the college. It is also college's responsibility to ensure availability of head of department of each basic science faculty during the evaluation visit.

PMDC Responsibility: The appointed inspectors shall review the list of faculty submitted by the college before the visit. During the evaluation visit, the inspectors will review faculty contract documents, speak to various faculty members and heads of departments, and review curricular document to correlate faculty requirements to education delivery.

Duration: Typical duration of this evaluation will be 0.5 days.

4. **Hospital Evaluation:** This evaluation is conducted by an inspector appointed by PMDC, Hospital Management and Safety Expert.

College Responsibility: For this evaluation, it is the college's responsibility to do a self-evaluation of the meeting the requirements of the teaching hospital. It is also college's responsibility to ensure availability of hospital administration and any other relevant documents or data during the visit.

PMDC Responsibility: The appointed inspector shall review the clinical facilities during the hospital tour. The inspector shall ensure that all those clinical specialties that are required are available in the teaching hospital(s). Moreover, the inspector shall ensure that patient load is according to the minimum requirements of the standards.

Duration: Typical duration of this evaluation will be 1 day.



Surveyor	Evaluation
Architect and Civil Supervisors	Evaluation of the college layout submitted to PMDC to actual – and comparing it with the space requirements of PMDC
Biomedical Engineer and Quantity Surveyor	Evaluation all medical equipment requirements
Health Professional Education Expert and Health Institution Management Expert	Curriculum Evaluation/Faculty Evaluation/Student Evaluation
Hospital Management and Safety Expert	Teaching Hospital Evaluation/Medical College Safety Tour
Basic Sciences Faculty Member	Basic Sciences-Medical College Facilities Evaluation
Clinical Sciences Faculty Member	Hospital Equipment and Patient Load Evaluation

