

N.T.R. UNIVERSITY OF HEALTH SCIENCES
(AFFILIATION OF MEDICAL COLLEGES) STATUTES

In exercise of the powers conferred by sub-section (2) of Section 31 of the University of Health Sciences Act, 1986 (Act No.6 of 1986), the Executive Council of the University of Health Sciences, Vijayawada hereby makes the following detailed statutes in respect of affiliation of new Medical Colleges.

STATUTES

- 1 (i) These statutes may be called the University of Health Sciences (affiliation of Medical Colleges) Statutes.
 - (ii) They shall come into force from the date of assent of the Chancellor.
2. The words and phrases used in these statutes shall, unless expressly explained otherwise, have the same meaning as they have with reference to the University of Health Sciences (Act No.6 of 1986) hereinafter called 'the Act'.
3. It shall be necessary for the proposed Medical College seeking affiliation to the University of Health Sciences, Vijayawada for starting I year MBBS Degree course to apply for Certificate of Registration and for consent of affiliation to University of Health Sciences, Vijayawada.
4. (1) (i) **Only Government/ Educational Trust/ Society herein after referred to as 'applicant' with sufficient financial soundness and which satisfy the conditions stipulated hereunder in substitute (ii) shall be eligible for consent of affiliation for starting a medical college.**
 - (ii) Conditions to be satisfied by the Trust / Society applying for Certificate of Registration and consent of affiliation.
 - (a) **The applicant owns and manages a hospital of not less than 300 beds with necessary infrastructural facilities and is capable of being developed into a teaching institution as prescribed by the Medical Council of India in the vicinity of proposed medical college.**
 - (b) **The hospital and administrative block are to have been located in an area of 25 acres in Urban agglomeration or 25 acres in other area.**

The provision 4 [(1) (ii) (b)] was changed as per Minimum Standard Requirements for the Medical College for 100 Admissions.
- (2) Application from individuals for Certificate of Registration and consent of affiliation will not be entertained.
5. The application for Certificate of Registration and consent of affiliation from the University of Health Sciences, Vijayawada, shall be in writing and in Form-I Annexed to these statutes addressed the Registrar of University of Health Sciences, Vijayawada and shall be submitted to the Registrar before 1st September of the academic year preceding to which affiliation is sought for. *[For example for academic year 2002-2003 to be submitted in September, 2001.]*
6. (1) The application for Certificate of Registration and for consent of affiliation shall accompany the essentiality Certificate issued by Govt. of Andhra Pradesh along with Demand Draft for a sum of Rs.50,000/- (Rupees fifty thousand only) or such an amount prescribed by the Executive Council from time to time drawn in favour of Registrar, University of Health Sciences, Vijayawada towards inspection fee.
 - a) Name of the educational Trust / society with full address.
 - b) Name of the proposed Medical College;
 - c) Certified copy of the essentiality certificate issued by Govt. of Andhra Pradesh for establishing the proposed Medical College;
 - d) Address where the Medical College is to be located with Telephone number, etc.,
 - e) Details regarding the administrative block of the hospital and its location;
 - f) Details of the hospital with plan, owned by the Trust / Society such as;

- i) The staff working (both of hospital and administration;
 - ii) Number of outpatient sections like Medicine, Surgery, Paediatrics, Midwifery, Ortho., ENT., Ophthalmology.
 - iii) Facilities like Radiology, Clinical Laboratory, Blood Bank and Operation Theatre etc;
 - iv) Daily outpatient turn over;
 - v) Bed occupancy;
 - vi) Master plan for the development of the hospital as a future teaching hospital with strength of 500 beds with all necessary facilities and scope for further development including specialties;
 - vii) Facilities like workshop, laundry, canteen auditorium etc;
 - viii) Location of hostels for men and women;
 - ix) Location of Play Ground;
 - x) Staff quarters proposed;
 - xi) Master plan of the college and hospital complex, either in toto or phased programme;
- g) Particulars as to the availability of land, building, other physical infrastructure, etc.,
 - h) Number of students proposed to be admitted in the first year of the MBBS course of study.
 - i) Particulars as to the availability of training facility for the students to be admitted in the college;
 - j) Particulars as to the availability of ready built area for the accommodation of the academic complex and residential quarters for the staff of the proposed colleges;
 - k) Particulars regarding availability of play ground;
 - l) Details regarding the location of hostels for men and women students;
 - m) Total population of the area in and around 20 kms. Of radius of the area in which the medical college is to be located.
 - n) Availability of Water supply, Electricity supply, transport facilities development potential, etc;
- 7) On receipt of the application for Certificate of Registration and consent of affiliation, the University shall scrutinize the same and verify by deputing an Inspection Committee, whether the conditions required to be fulfilled by the applicant Society to become eligible to receive the said Certificate of consent of affiliation.

The Inspection Committee shall specifically examine whether the following conditions are fulfilled by the applicant Trust / Society and make a detailed report to the University. Conditions to be fulfilled by the Trust / Society to become eligible to receive the Certificate of Registration.

- a) The applicant shall possess and own a suitable single plot not less than 25 acres of land or is possessed by way of 99 years lease for the construction of the college. The applicant has clear title to the lands without any encumbrance and shall furnish the title deeds and such other documents as required by the University from time to time.
- b) The applicant Trust / Society shall run a hospital (located in the above land) of not less than 300 beds with outpatients sections and sections such as Medicine, Surgery, Paediatrics, Midwifery, Orthopaedics, ENT., Ophthalmology with the facilities like Radiology, Clinical Laboratory, Blood Bank and Operation Theatre, etc., There must be good outpatients turnover and bed occupancy. The hospital must have its own administrative staff. The applicant trust must have a master plan of the future teaching hospital with a bed strength of 500 with all other required facilities including specialties. The facilities like Workshop, Laundry, Canteen, Auditorium, Location of Hostels separately for men and women availability of Playground, proposed staff quarters, the master plan of the college and hospital complied either in toto or in phased programme.

The accommodation (in plinth areas), staff and equipment for various departments are incorporated in these statutes as per booklet obtained from MCI, New Delhi "MINIMUM STANDARD REQUIREMENTS FOR THE MEDICAL COLLEGE FOR 100 ADMISSIONS ANNUALLY REGULATIONS, 1999".

As per MCI Norms the staff required in connection to Medical College and Hospital for some Departments as follows:-

1. Central Record Section:

| | | |
|---------------------------|---|---|
| 1) Medical record officer | - | 1 |
| 2) Statistician | - | 1 |
| 3) Coding Clerks | - | 4 |
| 4) Record Clerks | - | 6 |
| 5) Daftaries | - | 2 |
| 6) Peons | - | 2 |
| 7) Steno-typist | - | 1 |

2. Central Animal House

| | | |
|---|---|---|
| 1) Veterinary Officer | - | 1 |
| 2) Animal Attendants | - | 2 |
| 3) Technician for Animal Operation Room | - | 1 |
| 4) Sweepers | - | 2 |

3. Central Photographic cum audiovisual unit

| | | |
|---------------------------|---|---|
| 1) Photographers | - | 1 |
| 2) Artist Modellers | - | 1 |
| 3) Darkroom Assistant | - | 1 |
| 4) Audiovisual Technician | - | 1 |
| 5) Storekeeper-cum-clerk | - | 1 |
| 6) Attendant | - | 1 |

4. Central Workshop

| | | |
|---|---|---|
| 1) Superintendent (qualified engineer) | - | 1 |
| 2) Senior Technicians (Mechanical, Electrical, Electronic Refrigeration) | - | 4 |
| 3) Junior Technicians | - | 2 |
| 4) Carpenter | - | 1 |
| 5) Blacksmith | - | 1 |
| 6) Attendants | - | 4 |

c) The Inspection Commission shall examine and satisfy itself with the staff facilities and performance of the existing hospital, the master plan for future development and the financial viability of the applicant Trust / Society in relation to the movable and immovable properties. Further, the applicant Trust / Society must be in a sound financial position so as to have an annual income of not less than Rs.15,00,000/- (Rupees fifteen lakhs only). **[Excluding the interest accrued from the aforesaid deposit. The bank balance interest accrued on the same and its capability to deposit a sum of Rs.1,00,00,000/- (Rupees one crore only), in a Nationalised Bank which accepts fixed deposits in three phases of Rs.20,00,000/- (Rupees twenty lakhs only). Rs.40,00,000/- (Rupees forty lakhs only) and Rs. Rs.40,00,000/- (Rupees forty lakhs only) and for the successive phases of MBBS course of study.] This Provision was removed as per Government Orders, vide Lr.No. _____ from the Special Chief Secretary to Government, HM & FW Department, Government of Andhra Pradesh, as the Managements of providing 7.5 crores as Bank guarantee to Medical Council of India, New Delhi.**

- The University if fully satisfied on the basis of the report of the inspection commission that all the conditions required to be fulfilled by the applicant are fulfilled shall issue a Certificate of Registration and consent of affiliation in Form II annexed to these statutes to the applicant to enable the applicant to make further arrangements to obtain permission from the Medical Council of India / Government of India to start the First MBBS Degree course of study in the proposed Medical College.
- The issue of the Certificate of Registration and consent of affiliation alone shall not confer any right on the applicant to start the MBBS degree course of study.
- The applicant on receipt of the Certificate of Registration and consent for affiliation shall submit an application for permission to Central Government as required under the MCI regulations (1993) on establishment of the Medical Colleges.

11. The applicant on receipt of the permission from Government of India shall apply to the University for provisional affiliation for first year MBBS course in Form III annexed with these statutes and shall fulfill the conditions stipulated.
12. The applicant shall, before applying for affiliation for the first MBBS Degree course of study fulfil the following conditions, namely:-

- a) The hospital run by the Trust / Society shall be well organized with 300 beds and with separate outpatients section and with such other facilities as detailed below:
- i) One unit of 110 beds for Medicine with separate beds for Paediatrics (i.e.30 beds), Psychiatry, Dermatology, Venereology, Tuberculosis and Chest Diseases.
 - ii) One unit of 140 beds for General Surgery with separate beds for Orthopaedics Ophthalmology, ENT (i.e. 30 beds, 10 beds, 10 beds respectively) .
 - iii) One unit of 50 beds of Midwifery with sections of Obstetrics (i.e. 30 ,beds) and Gynaecology (i.e. 20 beds) and A antenatal, Neonatal and Family Planning Wings.
 - iv) Mortuary with cold storage facilities for not less than 25 bodies, rooms for staff, postmortem tables, equipments for postmortems with gallery arrangement for students.
 - v) Well organized hospital kitchen with a capacity to cater to 500 beds in the near future.

The above provision was changed as per Minimum Standard Requirements for the Medical College for 100 Admissions.

- b) There shall be separate college building sufficient to accommodate the pre-clinical departments as indicated below:
- i) A floor area of 12,000 – 13,000 sq.ft for the department of Anatomy.
 - ii) A floor area of 10,000 sq.ft for the department of Physiology.
 - iii) A floor area of 10,000 sq.ft for the department of Biochemisitry.
- c) There shall be heads of departments and skeleton staff for the above departments appointed six months in advance so that the departments are organized at the time of applying for affiliation.
- d) There shall be a Principal-cum-Professor with an organise4d administrative office.
- e) There shall be hostel facilities for the Men and women separately.
- f) The staff members shall be appointed for each unit, in Medicine, Surgery and Obstetrics and Gynaecology etc., is furnished as per MCI Regulations for 100 admissions.
- g) There shall be blood bank and departments of Radiology and Anaesthesia with qualified staff.
- h) One ambulance van and one mortuary van shall have to be made available.
- i) Towards the development of the teaching hospital, accommodation shall have to be provided for Medical Superintendent Office, Resident Medical Officer's Office, Nursing Superintendent Office, Lounge room for Medical Officers with waiting hall for men and women, accommodation for enquiry , reception, store room, central medical record section, linen room and hospital staff committee room.
- j) Besides provision for wards, accommodation for duty Nurses, Laboratory for students and staff for ordinary Pathological examination and treatment room, ward pantry store room for linen, drugs and equipments,, rooms for heads of units, room for clinical demonstration, etc., shall have to be provided.
- k) There shall be separate nursing section for every ward.
- l) There shall be central casualty service consisting of the following facilities and staff;
- i) Main reception room with section for observation;
 - ii) Minor operation theatre;
 - iii) Trauma Care Service;
 - iv) Toxicology poisoning cases care service;
 - v) Preliminary care beds – 20;
 - vi) Emergency Operation Theatre;
 - vii) Room for Medical Officers.

STAFF:

- i) Medical Officer;
- ii) Pathologists;
- iii) Anaesthetist;
- iv) Radiography – Technician;
- v) Emergency Operation Theatre – Stretcher Bearers;
- vi) Receptionist;
- vii) Nursing and para-medical staff sufficient to render round the clock service.

The attached hospital shall have Nursing staff as follows as prescribed by MCI norms.

1) Recommended norms for hospital Nursing Service:

| Staffing: | Staff | Teaching Hospital | | |
|-----------------------------|--|-----------------------------|--|---------------|
| | 1. Nursing Superintendent | 1 (for minimum of 150 beds) | | |
| | 2. Deputy Nursing superintendent | 1 | | |
| | 3. Assistant Nursing Superintendent | 2 | | |
| | (for every additional 50 beds one more Assistant Nursing Superintendent) | | | |
| | Staff Nurse | Sister | | |
| | | Department Senior / ANS | | |
| Medical Ward | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| Surgical wards | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| Orthopaedic ward | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| Paediatric Ward | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| Gynaecology ward | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| Maternity ward | 1:3 | 1:25 | Each Shift 1 | For 3-4 wards |
| | (Including New borns) | | | |
| Intensive Care Unit | 1:1 (24 hrs) | 1 each Shift | } 1Departmental Sister / ANS for 3-4 units | |
| Coronary Care Unit | 1:1 (24 hrs) | 1 each Shift | | |
| Special wards Eye, ENT Etc. | 1:1 (24 hrs) | 1 each Shift | | |
| Operation Theatre | 3 for 24 hrs. per table | 1 each Shift | 1Departmental sister / ANS for 4-5 Operation Theatre | |
| Casualty & Emergency Unit. | 2-3 Nurse depending on the no.of beds. | Staff 1 each Shift | 1Departmental sister / ANS for emergency casualty etc. | |

Out patient Department-Base on Actual observation.

- 1) a) Minor Operation Theatre 1 Staff Nurse for every 13 Patients
 - b) Injection Room 1 Staff Nurse for every 86 Patients.
 - c) Surgical Room 1 Staff Nurse for every 120 Patients.
 - d) Medical 1 Staff Nurse for every 140 Patients
 - e) Gynae. 1 Staff Nurse for every 35 Patients
 - f) Children (Paediatric) 1 Staff Nurse for every 85 Patients
 - g) Orthopaedic 1 Staff Nurse for every 120 Patients
 - h) Dental 1 Staff Nurse for every 120 Patients
 - i) ENT 1 Staff Nurse for every 120 Patients
 - j) Eye 1 Staff Nurse for every 86 Patients
 - k) Skin 1 Staff Nurse for every 100 Patients
- 2) Dieticians : In order to prescribe diet on the scientific lines for different type of patients the services of qualified dietician are essential in all the teaching hospitals.

- 3) Pharmacists : As required for Hospital
- 4) Class III and IV Personnel – as required for hospital.
- m) There shall be a college building with a teaching hospital which is located with sufficient space around it for future expansion at the time of applying for affiliation for the first MBBS course of study.
- n) There shall be two lecture halls with a seating capacity of 150-200 each for common use with good acoustics with provision for audio-visual aids.
- o) There shall be an **Anatomy department** with the following specifications and facilities. The department shall be accommodated in a minimum floor area of 12,000 to 13,000 sq.ft which consists.
- a) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- b) Demonstration room:- There shall be two demonstration rooms (45 sq.mts each) with seating arrangement for 50 to 60 students with strip chairs, Over Head Projector, Clid Projector, Television and Video and other audio visual aids.
- c) Dissection hall:- There shall be a dissection hall to accommodate 100 students (250 sq.mts) at a time. It shall be well lit, well Ventilated with exhaust fans and preferably centrally air-conditioned. There shall be an ante-room for students with lockers and ten wash basins. There shall be adequate teaching aids in the hall. In addition, there shall be an embalming room (12 sq.mts area) space for 3 storage tanks (one of 3 sq.mts & two of 1.5 sq.mts each) and cold storage room with space for 10-12 dead bodies (18 sq.mts area) or cooling cabins.
- d) Histology Laboratory:- There shall be a histology laboratory to accommodate 50-60 students at a time with work tables fitted with sinks, water taps and electrical points. One Histology preparation room should be provided adjacent to the Histology laboratory (150 sq.mts) with accommodation for work benches fitted with water taps, sinks, cup boards for Microscope storage and electric points for 60 students. There shall be a preparation room (18 sq.mts for Technicians and storage of equipments.
- e) Museum:- There shall be a museum (150 sq.mts) provided with racks and shelves for storing and proper display of wet and dry specimen and embryological sections, models, revolving stands for skiagrams, CT Scan, MRI and trolley tables, X-ray view boxes shall be multistand type to take 4 plates standard size 3 boxes (3 view boxes for 100 students). Adequate seating accommodation for 25 students to study in the museum shall be provided. There shall be two attached rooms (15 sq.mts each) for the preparation of models/specimens and for artists and modellers.
- f) Departmental Library:- There shall be a departmental library from Seminar room (30 sq.mts area) with atleast 80-100 books. However not more than two copies of any book shall be counted towards computation of the total number of books.
- g) Research Laboratory for staff:- There shall be a separate research laboratory (50 sq.mts area) with necessary furniture and equipment for the staff for research purposes.

There shall be separate rooms for the following categories of staff as indicated against each:

- | | |
|--|---------------|
| a) Prof. & Head of the Dept. room | 1 (18 sq.mts) |
| b) Associate Professors room | 2 (15 sq.mts) |
| c) Assistant Professor's Lecturers room | 1 (20 sq.mts) |
| d) Tutor's/Demonstration room | 1 (15 sq.mts) |
| e) Steno-Typist's room (adjacent to the Professor's room | 1 (12 sq.mts) |
| f) Working accommodation for non - Teaching staff | 1 (12 sq.mts) |

Staff members:- There shall be staff members appointed as indicated below:

| | |
|--|-----------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Readers | 2 (two) |
| 3. Lecturer | 3 (three) |
| 4. Tutors/Demonstrators | 4 (four) |
| 5. Technicians/Technicians | 4 (four) |
| 6. Steno-Typist | 1 (one) |
| 7. Artist-cum-Modellor | 1 (one) |
| 8. Dissection Hall Attenders. | 6 (six) |
| 9. Store keeper cum clerk | 1 (one) |
| 10. Sweepers | 6 (six) |

At the time of inspection atleast 50 percent of the teaching staff including the head of the department shall be present, and the posting orders and acceptance in respect of all other staff members shall be available.

All the selections in the department namely Anatomy and Histology shall be fully furnished with necessary equipments as per Annexure – II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation.

P) There shall be a **Physiology department** accommodated in floor area of not less than 10,000 sq.ft. with the following facilities and staff members:

- a) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- b) Demonstration room:- There shall be two demonstration rooms (45 sq.mts each) with seating arrangement for 50 to 60 students with strip chairs, Over Head Projector, Clid Projector, Television and Video and other audio visual aid
- c) Practical rooms: The following laboratories with adequate accommodation shall be provided to accommodate 60 students.
 - i) Amphibian laboratory (one) - (150 sq.m area) shall be provided with continuous working tables. Every seat shall be provided preferably with stainless steel wash basin. Every working table shall have one drawer and one cupboard, an electric point and with fire or steam proof top. One preparation room (14 sq.m area) shall be provided with the amphibian laboratory.
 - ii) Mammalian laboratory (one) (60 sq.m. area) shall be provided with four tables (2m x 0.6m) with stainless steel top and operating light. The laboratory shall have attached instrument rack, two large size wash-basins (stainless steel) and cupboards for storing equipments. One preparation room (14 sq.m area) shall be provided with the Mammalian laboratory.
 - iii) Human Laboratories:
 - a) Haematology Lab.(150 sq.m) area) provided with continuous working tables. Every seat shall be provided preferably with stainless steel wash basin. Every working table shall have one drawer and one cupboard, an electric point and with fire/steam proof top including provision of light source on each table. One preparation room (14 sq.m. area) shall be provided with this laboratory.
 - b) There shall be a Clinical Physiology Laboratory (60 Sq.m area) provided with 8 tables (height 0.8m) with mattresses and adjustable head-end.
 - c) Amphibian and Mammalian Jaboratory with necessary fittings, along with separate room for preparation, varnishing and smoking shall be provided.
 - d) Animal room and frog tank shall be provided.
 - e) Departmental Library:- There shall be a departmental library from Seminar room (30 sq.mts area) with atleast 80-100 books. However not more than two copies of any book shall be counted towards computation of the total number of books.

- f) Research Laboratory for staff:- There shall be a separate research laboratory (50 sq.mts area) with necessary furniture and equipment for the staff for research purposes.

There shall be separate rooms for the following categories of staff as indicated against each:

| | |
|---|---------------|
| a) Prof. & Head of the Dept. room | 1 (18 sq.mts) |
| b) Associate Professors /Reader room | 2 (15 sq.mts) |
| c) Assistant Professor's /Lecturers room | 1 (20 sq.mts) |
| d) Tutor's/Demonstration room | 1 (15 sq.mts) |
| e) Department Office-cum-clerical room | 1 (12 sq.mts) |
| g) Working accommodation for non - Teaching staff | 1 (12 sq.mts) |

Staff members:- There shall be staff members appointed as indicated below:

| | |
|--|-----------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Readers | 2 (two) |
| 3. Lecturer | 2 (two) |
| 4. Lecturer in Bio Physics | 1 (one) |
| 5. Tutors /Demonstrators | 4 (four) |
| 6. Technical Asst./Technicians | 4 (four) |
| 7. Store keeper cum clerk | 1 (one) |
| 8. Sweepers | 2 (two) |
| 9 Steno - typist | 1 (one) |
| 10. Laboratory Attendants | 3 (three) |

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Physiology Department shall be fully furnished with necessary equipments as per Annexure – II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

Q) There shall be a **Bio-Chemistry Department** accommodated in an area of not less than 10,000 sq.ft. with the following facilities and staff members:-

- a) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- b) Demonstration room:- There shall be two demonstration rooms (45 sq.mts each) fitted with Strip chairs, Over Head Projector, Slide projector, Television Video and other audio visual aids, to accommodate at least 50-60 students.
- c) Practical Laboratory -

There shall be a Practical Laboratory (150 sq.m) with benches fitted with shelves and cupboards, water taps, sinks, electric and gas connections so as to accommodate 60 students. Two Ante rooms (14 sq.m. area) each for technicians, stores, preparation room, balance and distillation apparatus shall also be provided.

l) Departmental Library -

There shall be a Departmental library-cum-seminar room (30 sq. m area) with at least 80-100 books. However, not more than two copies of anyone book shall be counted towards computation of the total number of books.

m) Research - There shall be one research laboratory (50 sq.m. area) for research purposes.

n) Accommodation shall be provided for the staff as under, namely:

- h) Professor & Head of the Department (18 sq.m. area).
- ii) Associate Prof. - One room (15 sq.m. area each)
- iii) Asst.Professor/Lectures(Three)-One room (12 Sq.m area)
- iv) Tutors/Demonstrators - One room (15 sq.m area)
- v) Department office cum clerical room one (12 sq.m. area)
- vi) Working accommodation for non-teaching staff (12 sq.m. area)
- vii) There shall be a small separate acid room for storing corrosive acids and chemicals needed for laboratory work;
- viii) There shall be a clinical laboratory with laboratory tables and all necessary equipments to carryout clinical investigations for the patients from the attached hospitals.
- ix) There shall be a waiting room for the patients adjacent to it and arrangements to receive specimens;
- x) Research laboratory for staff members about 30 x 60' with all necessary laboratory fittings;
- xi) Arrangements for gas supply;

a) Teaching staff:

| | |
|-------------------------------------|---------|
| 1) Professor | 1(One) |
| 2) Reader | 1(one) |
| 3) Lecturer | 1(one) |
| 4) Tutors /Demonstrators | 2(Two) |
| 5) Technical Assistant/ Technicians | 4(Four) |
| 6) Laboratory Attendants | 1(one) |
| 7) Storekeeper cum clerk | 1(One) |
| 8) Sweepers | 2(two) |

- ii) At the time of Inspection, Professor and 50 per cent of teaching staff should be present. Posting order and acceptance in respect of all other teaching staff should be available.
- iii) All the selections in the department namely Biochemistry shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation
- iv) *Regarding clinical service, laboratory fittings must be over and preparation to start the clinical service by next inspection should be under way. The equipment necessary for the clinical laboratory must be under process of being purchased and installed. This should include all modern sophisticated equipment to carry out investigations of patients in the teaching hospital.*

b) Central Library:

There shall be a Central Library (800 sq.m) with seating arrangement for atleast 100 students for reading and having good lighting and ventilation and space for stalking and display of books and journals. There shall be one room for 100 students inside and one room for 50 students outside. It should have not less than 7000 text and reference books. In a new medical college the total number of books should be proportionately divided on yearly basis in five years. The number of journals shall be 100 out of which one-third shall be foreign journals and subscribed on continuous basis. The number of copies of text books in each subject of under graduate teaching shall be ten.

There shall be provision for -

- a) Staff reading room for 20 persons.
- b) Rooms for librarian and other persons
- c) Room for daftaries and book binders
- d) Microfilm reading room
- e) Journal room
- f) Room for copying facilities
- g) Video and Casette room (desirable)
- h) Airconditioned Computer room with Medlar and Internet facility.

The following staff shall be provided in:

| | |
|---|---------|
| 1) Librarian with a degree in Library Science | 1(one) |
| 2) Deputy Librarian | 1(one) |
| 3) Documentalist | 1(one) |
| 4) Cataloguer | 1(one) |
| 5) Library Assistants | 4(four) |
| 6) Daftaries | 2(two) |
| 7) Peons | 2(two) |

- 13) The applicant after fulfilling the conditions stipulated in the above statutes, shall intimate the fact to the University in writing along with the Demand Draft for a sum of Rs.50,000/- (Rupees fifty thousand only) for such an amount prescribed by the Executive Council from time to time drawn in favour of the Registrar, University of Health Sciences, Vijayawada towards the inspection fee payable to the University and shall request the University to depute its inspection committee to inspect the facilities available at the proposed medical college and to submit report to the University as to the satisfactory fulfillment of the conditions required to be fulfilled. On receipt of the above intimation the University shall send its inspection committee to inspect the facilities available at the proposed medical college and to submit its report to the University as to the satisfactory fulfillment of the conditions required to be fulfilled. The Inspection committee shall also report the lacunae,. If any, in the fulfillment of any of the conditions required to be fulfilled and also advise as to the capability of the organization to rectify the lacunae in the fulfillment of the conditions, the University may conduct re-inspection on payment of a sum of Rs.10,000 (Rupees ten thousand only) towards the re-inspection fee and shall receive a final report from the inspection committee.
- 14) After a detailed examination of the final report of the Inspection Commission and if the University is fully satisfied as to the fulfillment of the conditions for the affiliation for the first year MBBS degree course of study, the University shall direct the applicant to remit a sum of Rs.1,00,00,000/- (Rupees one crore only) as a security deposit in three installments. Rs.20,00,000/- (Rupees twenty lakhs only) before receiving certificate or registration and affiliation for first MBBS and Rs.40,00,000/- (Rupees forty lakhs only) before receiving certificate of affiliation for Second MBBS and Rs.40,00,000/- (Rupees forty lakhs only) before receiving affiliation of Final MBBS. The security deposits shall be invested in a fixed deposit in a nationalised bank or government undertaking / corporation which accepts fixed deposits jointly in the name of the Registrar, University of Health Sciences, Vijayawada and in the name of the applicant. The fixed deposit receipt shall be kept in the custody of the Registrar. The interest accrued thereon shall be utilised towards the maintenance of the Medical College and the applicant shall submit an utilisation certificate in this regard in form No.IV annexed with these statutes, at the end of every academic year.

The above Provision was removed as per Government Orders, vide Lr.No. _____ from the Special Chief Secretary to Government, HM & FW Department, Government of Andhra Pradesh, as the Managements of providing 7.5 crores as Bank guarantee to Medical Council of India, New Delhi.

- 15) Basing on the permission of Government of India / basing on above inspection committees report the University shall grant certificate of registration and provisional affiliation for the first year MBBS course of study for not exceeding 100 students after collecting such amount as affiliation fee as may be prescribed by the Executive Council from to time from the applicant by means of a demand draft drawn in favour of Registrar, University of Health Sciences Vijayawada, towards administration fee and affiliation fee for the first year MBBS course of study.

- 16) It shall be competent for the University to withdraw the provisional affiliation granted herein by giving three months notice stating the reasons therefor to the applicant.
- 17) The applicant shall show evidence of an annual income of not less than Rs.15,00,000/- (Rupees fifteen lakhs only). This is only a portion of the liability which the college is likely to incur every year towards payment of salaries to the staff and the maintenance of the college.
- 18) (1) The provisional affiliation granted by the University shall be only for the first year MBBS degree course of study.
- (2) Every college shall have a duly constituted Governing Body or Managing Committee with the representatives of the teaching staff, to advise the Principal in the internal affairs of the college. The Governing Body shall also have atleast two representatives of the University nominated by the Vice-Chancellor and one representative of the Government of Andhra Pradesh Government. A record of the proceedings of the said Governing Body/ Managing Committee shall be maintained by the Principal who shall be the Secretary to the Governing Body/ Managing Committee. The Governing Body shall have as its members among other members not less than 7 or not more than 10 persons including
- a) the Principal of the College (Ex-Officio),
 - b) Two persons nominated by the Vice-chancellor to represent the University
 - c) One person nominated by the State Government to represent the Government from Medical Education Department and
 - d) One person from the teaching staff of the college concerned by election from among themselves.
- 3) The member nominated by the University under sub-statute(2) shall hold office for a period of two years. Any change in the Governing Body of the college shall be reported to the University immediately .
- 4) The Medical College shall furnish a budget for each year of study and a separate development budget which will cover the expenses for the fulfillment of the requirements prescribed for the second year MBBS degree course of study.
- 5) The Governing Body of the College shall meet atleast once in three months to consider the budget estimates and such other matters as may arise in its working. It shall meet in May-June each year to consider the Annual Report, the audited statement of accounts, changes in the staff, subjects or courses in which fresh affiliation or approval is to be sought in the following year. A copy of the notice of the meeting shall be sent to the nominee of the University, with a copy to the Registrar, atleast fifteen clear days before the date of the meeting. A copy of minutes of the meeting shall also be sent to the nominee of the University and the Registrar within fifteen days of the meeting.
- 6) College shall have a duly constituted selection committee for recruitment to the teaching staff and there shall be atleast two representatives of the University nominated by the Vice-chancellor on it. The Vice-chancellor or his nominee shall be the Chairman of the Selection Committee. The recommendations made by the Selection Committee shall be reported to the Vice-chancellor for approval, he shall satisfy himself they meet the requirements of the University .

THE ABOVE CLAUSES 18 (1 to 6) SHALL NOT BE APPLICABLE TO THE INSTITUTIONS DECLARED AS MINORITY INSTITUTIONS BY THE GOVERNMENT OF ANDHRA PRADESH FROM TIME TO TIME. THE INSTITUTIONS WHICH CLAIMS EXEMPTION, SHALL APPLY TO THE REGISTRAR, NTR UHS, VIJAYAWADA BY ENCLOSING CERTIFIED COPY OF THE ORDERS ISSUED BY GOVERNMENT OF ANDHRA PRADESH AS "MINORITY INSTITUTIONS". (AS PER EC RESOLUTIONS DATED _____ OF THIS UNIVERSITY / VIDE LR.NO. 1380/E1/98-9, DT. 25-7-2001 FORM THE SPECIAL CHIEF SECRETARY TO GOVERNMENT OF ANDHRA PRADESH.

19) *After the receipt of renewal of permission by Government of India /* By the time only six months period is left for the first MBBS students to take up the first MBBS students to take up the first MBBS examination, [as per which occurs first] the management of the medical college shall apply to the University for affiliation of the second MBBS Para-clinical and clinical courses in Form III annexed with these statutes. In the said application the following details shall be furnished. Before applying so, the following facilities and departments with the staff members stipulated herein have to be provided by the management of the medical college.

- i) Development of the teaching hospitals.
- ii) Buildings, space to accommodate Pharmacology, Pathology, Microbiology, Forensic Medicine, Community Medicine, Medicine, Surgery and Midwifery Departments.
- iii) List of equipments in each department.
- iv) List of staff to be appointed.

The hospital shall be with a capacity of 500 beds with additional units of Medicine, Surgery, Obstetrics and additional units of Medicine, Surgery, Obstetrics and Gynaecology as stipulated by the Medical Council of India.

A) There must be an out-patient block with the departments of

- i) Medicine, Paediatrics, Dermatology, Chest Diseases, Psychiatry.
- ii) Surgery, Orthopaedics, Paediatric, Surgery, ENT and Ophthalmology.
- iii) Obstetrics and Gynaecology with Antenatal Gynaecology, Family Planning, Neonatal Wings.

Each of the above out-patient department shall have the following facilities:-

- i) Waiting room for patients;
- ii) Cubicals for examination of patients by medical officers;
- iii) Consultation room adjoining the O.P. for Medical Officers; and
- iv) Sufficient spare for clinical demonstration.

The following requirements and conditions shall be fulfilled in the O.P. block in addition to the Central Casualty services;.

- a) Out patient Radiology, Ultrasound, E.C.G., Clinical Laboratory, Pharmacy for Men and Women, Injection Room, Dressing Room, Minor Surgical Operation Theatre and Medical and Surgical Stores. As hospital develops C.T. Scan shall be added.
- b) The nurses and ancillary non-medical staff for the hospital shall be patterned on the basis of the recommendation of the Yardstick prepared of Government of Andhra Pradesh.
- c) Four more Lecture Halls to accommodate 150 to 200 students each and one examination hall with a seating capacity of 200 students with tables and chair arrangements, with an elevated stage, for inspecting Officers.
- d) The Central Library should have expanded to accommodate books in Pharmacology, Pathology, Microbiology, Forensic Medicine, Community Medicine, General medicine and Surgery. At this stage journals should also be introduced. Minimum of 200 reference books in each subject and copies of standard books prescribed by the University should be available.
- e) The Audio-Visual Department and Library should show improvement.

B) Pharmacology Department: The Pharmacology Department shall have:

- 1) The total floor area of not less than 10,000 sq.ft.
- 2) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- 3) Demonstration room:- There shall be one demonstration rooms (45 sq.mts area) fitted with Strip chairs, Over Head Projector, Slide projector, Television Video and other audio visual aids, to accommodate at least 50-60 students.

4) Practical laboratories - There shall be a practical laboratory with accommodation for 50-60 students for the following namely:-

- i) Experimental Pharmacology (150 sq.mts) with ante-room (14 sq.mts. area) for smoking and varnishing of kymograph papers.
- ii) Clinical Pharmacology and Pharmacy (150 sq.mts area) with one ante-room (14 sq.mts. area) for technicians, storage of equipment and appliances and preparation room.

5) Museum - There shall be a museum (100 sq.mts.) for specimens, charts, with a separate section depicting "History of Medicine", with a seating capacity of at least 25 students. All the specimens shall be labeled and atleast 10 copies of catalogues for student use be provided.

6) Departmental Library -

There shall be a Departmental library-cum-seminar room (30 sq. m area) with at least 80-100 books. However, not more than two copies of anyone book shall be counted towards computation of the total number of books.

7) Research - There shall be one research laboratory (50 sq.m. area) for research purposes.

8) Accommodation shall be provided for the staff as under, namely:

- I. Professor & Head of the Department (18 sq.m. area).
- II. Associate Professor / Reader - One room (15 sq.m. area each)
- III. Asst.Professor / Lectures -One room (12 Sq.m area)
- IV. Tutors/Demonstrators - One room (15 sq.m area)
- V. Department office cum clerical room one (12 sq.m. area)
- VI. Working accommodation for non-teaching staff (12 sq.m. area)

9) Teaching staff:

| | |
|-------------------------------------|----------|
| 1) Professor | 1(one) |
| 2) Reader | 1(one) |
| 4) Lecturer | 2(two) |
| 4) Tutors /Demonstrators | 4(four) |
| 5) Pharma-chemist | 1(one) |
| 6) Technical Assistant/ Technicians | 3(three) |
| 7) Laboratory Attendants | 3(three) |
| 8) Storekeeper cum clerk | 1(One) |
| 9) Sweepers | 2(two) |
| 10) Steno-cum-Typist | 1 (one) |

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Pharmacology Department shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

C) Pathology Department: The Pathology Department shall have:

- 1) The floor of area of not less than 10,000 sq.ft. to house the different schemes.
- 2) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- 3) Demonstration room – There shall be one demonstration room (45 sq.mt) fitted with Over Head Projector, Slide Projector, Television Video and other audiovisual aids, to accommodate at least 50-60 students.

- 4) There shall be Practical Laboratories for Morbid Anatomy and Histopathology / Cytopathology (150 sq.mt.area) and for clinical Pathology / Haematology (150 sq.mt area) with preparation room (14 sq.mt.area) with benches, fitted with shelves, cupboards, sinks, water taps, light for microscopy and burners for 60 students to carry out exercises.
- 5) There shall be a separate service laboratory each (25 sq.mt) for histopathology, cytopathology, Haematology and other specialized work in the hospital suitably equipped.

In addition there shall be a balance room (14 sq.mt), store room (14 sq.mt) and special room for high speed centrifuge (14.sq.mt) and a wash room (14 sq.mt) with continuous water supply.

- 6) Museum – There shall be a museum (60 sq.mt) for specimens, charts, models with a sitting capacity of atleast 25 students. All the specimens shall be labeled and at least 10 copies of catalogues for student use be provided. In addition, there shall be an ante room.
- 7) Autopsy Block – There shall be an Autopsy room (approx. 400 sq.mt.area) with facilities for cold storae, for cadavers, ante-rooms, washing facilities, with an accommodation capacity of 20-25 students, waiting hall and office. The location of mortuary and autopsy block should be either in the hospital or adjacent to the hospital in a separate structure and may be shared with the department of Forensic Medicine.
- 8) Departmental Library – There shall be a departmental library-cum-seminar room (30 sq.mt. area) with at least 80-100 books. However, not more than two cpies of anyone book shall be counted towards computation of the total number of books.
- 9) Research – There shall be one research laboratory (50 sq.mt area) for research purposes.
- 10) Accommodation shall be provided for the staff as under:
 1. Professor and Head of the Department – (18 sq.mt. area)
 2. Associate Professor / Reader- Three rooms (15 sq.mt area each)
 3. Asst.Professor / Lecturers (three) – Two rooms (14 sq.mt. area each)
 4. Tutors / Demonstrators – three rooms (15 sq.mt area each)
 5. Department office cum Clerical room one (12 sq.mt.area); and
 6. Working accommodation for non-teaching staff (12 sq.mt aea)
- 11) Blood Bank – There shall be an airconditioned Blood Bank (100 sq.mt. area) and shall include –
 - a) Registration and Medical Examination Room and selection of donors room with suitable furniture and facilities.
 - b) Blood Collection room.
 - c) Room for Laboratory for Blood group Serology;
 - d) Room for Laboratory for Transmissible diseases like Hepatitis, Syphilis, Malaria, HIV Antibodies etc.,
 - e) Sterilisation and washing room;
 - f) Refreshment room; and
 - g) Store and Records room.

The equipment and accessories etc. shall be provided as prescribed in Part XII-B in Schedule F to the Drugs and Cosmetics rules, 1945 amended from time to time.

Blood Bank staff required:

| | | |
|--------------------------|---|---|
| 1. Professor / Reader | - | 1 |
| 2. Lecturer | - | 1 |
| 3. Technicians | - | 6 |
| 4. Laboratory Attendants | - | 6 |
| 5. Storekeepers | - | 6 |
| 6. Record Clerks | - | 2 |

12) Staff Members:

| | |
|--|------------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Reader | 3 (Three) |
| 3. Lecturer | 3 (Three) |
| 4. Tutors/Demonstrators | 6 (Six) |
| 5. Artist-cum-Photographer | 1 (one) |
| 6. Technicians/Tech.Assts | 8 (eight) |
| 7. Lab Attendants | 5 (five) |
| 8. Steno-Typist | 1 (one) |
| 9. Clerks | 2 (two) |
| 10. Store Keeper. | 1 (one) |
| 11. Record Clerk | 1 (one) |
| 12. Sweepers | 4 (four) |

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Pathology Department shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

D) Department of **Microbiology and Immunology**: The Microbiology and Immunology department shall have:

- 1) A total floor area of not less than 10,000 sq.ft to accommodate the different sections.
- 2) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- 3) Demonstration room – There shall be one demonstration room (45 sq.mt) fitted with Over Head Projector, Slide Projector, Television Video and other audiovisual aids, to accommodate at least 50-60 students.
- 4) Practical laboratory - There shall be Practical Laboratory with (150 sq.mt.area) with benches fitted with shelves, cupboards, sinks, water taps, light for microscopy and burners for 60 students (150 sq.mts.area) with laboratory benches, gas, water and electric points, microscopes and light with a preparation room (14 sq.mts. area).
- 5) There shall be a separate service laboratory each for (1) Bacteriology including anaerobic; (2) Serology; (3) Virology; (4) Parasitology; (5) Mycology; (6) Tuberculosis; and (7) Immunology.
Area for each service laboratory shall be a 25 sq.mt Separate accommodation for (1) Media Preparation and storage (20 sq.mt. area) (2) Auto Claving (12 sq.mt area) (3) Washing & drying room with regular and continuous water supply (12 sq.mt.area) for contaminated culture plates, test tubes and glassware shall be provided.
- 6) Museum – There shall be a museum (60 sq.mt) for specimens, charts, models with a sitting capacity of atleast 25 students. All the specimens shall be labeled and at least 10 copies of catalogues for student use be provided.
- 7) Departmental Library – There shall be a departmental library-cum-seminar room (30 sq.mt. area) with at least 80-100 books. However, not more than two cpies of anyone book shall be counted towards computation of the total number of books.
- 8) Research – There shall be one research laboratory (50 sq.mt area) for research purposes.
- 9) Accommodation shall be provided for the staff as under:
 1. Professor and Head of the Department – (18 sq.mt. area)
 2. Associate Professor / Reader- one room (15 sq.mt area each)
 3. Asst.Professor / Lecturers – one rooms (12 sq.mt. area each)
 4. Tutors / Demonstrators – one rooms (15 sq.mt area each)
 5. Department office cum Clerical room one (12 sq.mt.area); and
 6. Working accommodation for non-teaching staff (12 sq.mt aea)

10) Staff Members:

| | |
|--|-----------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Reader | 1 (one) |
| 3. Lecturer | 1 (one) |
| 4. Tutors/Demonstrators | 2 (two) |
| 5. Technician / Technical Assts. | 4 (four) |
| 6. Steno-Typist | 1 (one) |
| 7. Laboratory Attendants | 3 (three) |
| 8. Store Keeper. | 1 (one) |
| 9. Record Clerk | 1 (one) |
| 10. Sweepers | 3 (three) |

All equipments necessary for running the laboratory and teaching the students as per the recommendations of Medical Council of India and necessary modern and sophisticated equipments should be provided. Each student should be provided with modern good microscope.

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Microbiology Department shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

E) Department of **Community Medicine**: The Department of Community Medicine shall have:

- 1) Students laboratory to accommodate 60 students with facilities for microscopic work;
- 2) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- 3) Demonstration room – There shall be one demonstration room (45 sq.mt) fitted with Over Head Projector, Slide Projector, Television Video and other audiovisual aids, to accommodate at least 50-60 students.
- 4) There shall be a Laboratory with (150 sq.mt.area) with facilities for purpose of demonstration of various laboratory practicals.
- 5) Museum – There shall be a museum (100 sq.mt) for the display of models, charts, specimens and other material concerning communicable diseases. Community Health, Family Welfare Planning, Biostatistics, Sociology, National Health Programmes, Environmental Sanitation etc.
- 6) Departmental Library – There shall be a departmental library-cum-seminar room (30 sq.mt. area) with at least 80-100 books. However, not more than two copies of anyone book shall be counted towards computation of the total number of books.
- 7) Research – There shall be one research laboratory (50 sq.mt area) for research purposes.
- 8) Accommodation shall be provided for the staff as under:
 1. Professor and Head of the Department – (18 sq.mt. area)
 2. Associate Professor / Reader- one room (15 sq.mt area each)
 3. Asst.Professor / Lecturers – one rooms (15 sq.mt. area each)
 4. Statistician cum Lecturer – One room (12 sq.mt.)
 5. Epidemiologist-cum-Lecturer – One room (12 sq.mt. area)
 6. Tutors / Demonstrators – one rooms (15 sq.mt area each)
 7. Department office cum Clerical room one (12 sq.mt.area); and
 8. Working accommodation for non-teaching staff (15 sq.mt aea)

9) Primary Health Centre / Rural Health Training Centre

Every medical college shall have three primary health centers / rural health training centers for training of students in community attached to it. Out of these one primary health center shall be within a distance of 30 km. Or within one hour of commuting distance from the medical college. Separate residential arrangements for boys and girls, interns and undergraduates with mess facilities shall also be provided in at least one of the primary health centers / rural health training Centres which shall be under the full administrative jurisdiction of the medical college. Adequate transport shall be provided for carrying out field work, techning and training activities by the department of community medicine and other departments (both for staff and students).

10) Urban Health Training Center – it shall be under the administrative control of Department of Community Medicine. Adequate transport shall be provided for commuting the staff and students.

| | | |
|---------|--------------------------------------|----------|
| 11) (a) | 1. Professor | 1 (one) |
| | 2. Reader | 1 (one) |
| | 3. Lecturer | 2 (two) |
| | 4. Epidemiologist cum lecturer | 1 (one) |
| | 5. Statistician cum Lecturer | 1 (one) |
| | 6. Tutors / Demonstrators | 4 (four) |
| | 7. Medical Social worker | 2 (two) |
| | 8. Technical Assistant / Technicians | 2 (two) |
| | 9. Stenographers | 1 (one) |
| | 10. Record Clerk | 1 (one) |
| | 11. Store keeper | 1 (one) |
| | 12. Sweepers | 2 (two) |

(b) Staff at rural centre

| | |
|--|---------|
| 1. Medical Officer or Health-cum-Asst.Prof. | 1 (one) |
| 2. Lady Medical Officer | 1 (one) |
| 3. Medical Social Workers (one male and one female) | 2 (two) |
| 4. Public Health Nurse | 1 (one) |
| 5. Health Inspectors | 2 (two) |
| 6. Health educator | 2 (two) |
| 7. Technician / Technical Assts. | 2 (two) |
| 8. Peon | 1 (one) |
| 9. Van driver | 1 (one) |
| 10. Store keeper | 1 (one) |
| 11. Record Clerk | 1 (one) |
| 12. Sweepers | 2 (two) |

(c) Staff at urban health training centre

| | |
|---|---------|
| 1. Medical Officer or Health-cum-Asst.Prof. | 1 (one) |
| 2. Lady Medical Officer | 1 (one) |
| 3. Medical Social Workers | 2 (two) |
| 4. Public Health Nurse | 1 (one) |
| 5. Health Inspectors | 2 (two) |
| 6. Health Educator | 1 (one) |
| 7. Technician / Technical Assts. | 2 (two) |
| 8. Poen | 1 (one) |
| 9. Van driver | 1 (one) |
| 10. Store keeper | 1 (one) |
| 11. Record Clerk | 1 (one) |
| 12. Sweepers | 2 (two) |

NOTE:- The Urban and Rural Training Health Centre should be under the direct administrative control of the Dean / Principal of the College.

All equipments necessary for this department for teaching the students as per the provisions of the Indian Medical Act shall be provided. Two vans shall be provided for transporting the students.

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Community Medicine Department shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

(F) Forensic Medicine Department & including Toxicology

: The department of Forensic Medicine shall have:

- 1) Lecture theatre - There shall be a Lecture Theatre with seating capacity of 150 students.
- 2) Demonstration room – There shall be one demonstration room atleast (45 sq.mt) fitted with strip chairs, Over Head Projector, Slide Projector, Television Video and other audiovisual aids, to accommodate at least 50-60 students.
- 3) Museum – There shall be a museum (150 sq.mt area) to display medico-legal specimens charts, models, prototype fire arms, wax models, slides, poisons, photographs etc. with seating arrangements for 20-25 students. All the specimens shall be labeled and at least 10 copies of catalogues for student use be provided.
- 4) There shall be a laboratory (150 sq.m area) for examination of specimens, tests and Forensic Histopathology, Serology, anthropology and toxicology.
- 5) Autopsy Block – There shall be an Autopsy room (approx. 400 sq.mt.area) with facilities for cold storae, for cadavers, ante-rooms, washing facilities, with an accommodation capacity of 20-25 students, waiting hall and office etc. The location of mortuary and autopsy block should be either in the hospital or adjacent to the hospital in a separate structure and may be shared with the department of Pathology.
- 6) Departmental Library – There shall be a departmental library-cum-seminar room (30 sq.mt. area) with at least 80-100 books. However, not more than two cpies of anyone book shall be counted towards computation of the total number of books.
- 7) Research – There shall be one research laboratory (50 sq.mt area) for research purposes.
- 8) Accommodation shall be provided for the staff as under:
 7. Professor and Head of the Department – (18 sq.mt. area)
 8. Associate Professor / Reader- one room (15 sq.mt area each)
 9. Asst.Professor / Lecturers – one room (12 sq.mt. area each)
 10. Tutors / Demonstrators – one room (15 sq.mt area each)
 11. Department office cum Clerical room one (12 sq.mt.area); and
 12. Working accommodation for non-teaching staff (12 sq.mt aea)

9) Staff Members:

| | |
|----------------------------------|---------|
| 1. Professors | 1 (one) |
| 2. Reader | 1 (one) |
| 3. Lecturer | 1 (one) |
| 4. Tutors / Demonstrators | 2 (two) |
| 5. Technical Asst. / Technicians | 2 (two) |
| 6. Lab. Attendants | 2 (two) |
| 7. Stenotypist | 1 (one) |
| 8. Storekeeper cum clerk | 1 (one) |
| 9. Sweepers | 2 (two) |

For postmortem work and other medico-legal work extra staff be provided.

At the time of Inspection the departments of Pharmacology, Pathology, Microbiology and Community Medicine shall be full pledged and the infrastructure of the Forensic Medicine department also complete

At the time of inspection, the Professor and 50 percent of teaching staff shall be present. Posting orders and acceptance in respect of all the other staff shall be available.

All the selections in the department namely Community Medicine Department shall be fully furnished with necessary equipments as per Annexure - II for 100 seats / as per Annexure-III for 150 seats (as prescribed by MCI) to enable teaching and training of the candidates as per the Medical Council of India regulation

- 20) Hospital: At the stage of giving affiliation to the II MBBS course the hospital shall have at least 500 beds with the following units:
- a) Four units of Medicine
 - b) Separate beds in each for Pediatrics/TB/Chest diseases, Dermatology and Venerology and Psychiatry.
 - c) Four units of Surgery with beds in each in Surgery, Orthopedic, ENT (Oto-Rhinolaryngology) & Ophthalmology
 - d) Two Units in Obst & Gynaecology, Antenatal, Neonatal and Family welfare sections

The above provisions was changed as per Minimum Standard Requirements for the Medical College for 100 Admissions.

- 1) All the teaching hospitals shall be under the academic, administrative and disciplinary control of the Dean / Principal of the Medical College.
- 2) Accommodation shall be provided for Dean (36 sq.mt) and Medical Superintendent (36 sq.mt) and hospital offices for the supportive staff, Nursing Superintendent's room and office, waiting space for visitors. There shall also be accommodation for:
 - a) Enquiry Office,
 - b) Reception area (300 sq.mt) including facilities for public telephone, waiting space for patients and visitors, drinking water facility with nearby toilet facilities.
 - c) Store rooms.
 - d) Central Medical Record Section (200 sq.mt.)
 - e) Linen Rooms
 - f) Hospital and Staff Committee room (60 sq.mt.)
- 3) One Central Lecture theatre of gallery type with a seating capacity of 150 persons and audio-visual aids shall be provided in the hospital.
- 4) Central Registration and statistics department with computer facilities shall be provided.
- 5) Intercome network alongwith paging and bleep system between various sections, hospitals and college shall be provided for better service, coordination and patient care.
- 6) Residential accommodation shall be provided in the hospital campus for interns, Jr.Residents, Senior Residents, Registrars etc.
- 7) There shall be a minimum OPD attendance of 8 patients per day (old & new) per student intake.
- 8) Indoor beds occupancy – Average occupancy of indoor beds shall be a minimum of 80% per annual.
- 9) Clinical Departments in the Hospital.
Requirement of beds and units:
The number of beds required for 100 admissions annually is 500. They may be distributed for the purposes of clinical teaching as under, namely:-

i) MEDICINE AND ALLIED SPECIALITIES:

| | | No.of beds and units required beds / units. |
|----|--|--|
| 1. | General Medicine | 120/4 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 3 |
| | 3. Lecturer | - 4 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 4 |
| | 5. Junior Residents | - 12 |
| 2. | Paediatrics | 60/2 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 2 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 2 |
| | 5. Junior Residents | - 6 |
| 3. | Tuberculosis and Respiratory Diseases | 20.1 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 1 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 1 |
| | 5. Junior Residents | - 3 |
| 4. | Dermatology, Venereology and Leprosy | 10/1 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 1 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 1 |
| | 5. Junior Residents | - 3 |
| 5. | Psychiatry | 10/1 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 1 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 1 |
| | 5. Junior Residents | - 3 |

In connection to above departments the following ancillary staff shall be provided.

| | | |
|-----|---|-----|
| 1. | Child Psychologist | - 1 |
| 2. | E.C.G.Technician | - 1 |
| 3. | Technical Assistant / Technician | - 3 |
| 4. | Lab Attendants | - 5 |
| 5. | Store keeper | - 2 |
| 6. | Steno-typist | - 2 |
| 7. | Record Clerks | - 3 |
| 8. | Health Educator | - 1 |
| 9. | Health Visitors (TB & Chest) | - 2 |
| 10. | Social Workers (Psychiatric / Paediatric) | 3 |

Note :

- 1) There shall be well equipped and updated Intensive Care Unit (I.C.U.), Intensive Coronary Care Unit (I.C.C.U.), Intensive Care Paediatric beds and preferably intensive Care in Tuberculosis and Respiratory Diseases.
- 2) Wherever possible, the facilities available in larger tuberculosis and chest diseases hospitals, infectious diseases hospitals and mental hospitals may be utilized for training in these specialities. However, if these hospitals are not under the total administrative control of the Medical College, the required beds in these specialities shall have to be provided in the attached teaching hospital itself.

ii) SURGERY AND ALLIED SPECIALITIES:

| | | No.of beds / units required. |
|----|---|------------------------------|
| 1. | General Surgery | 120/4 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 3 |
| | 3. Lecturer | - 4 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 4 |
| | 5. Junior Residents | - 12 |
| 2. | Department of Orthopaedics | 60/2 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 2 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 2 |
| | 5. Junior Residents | - 6 |
| 3. | Department of Ophthalmology | 20/1 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 1 |
| | 4. Tutor / Registrar / Sr.Resident a. (with 3 years resident experience) | - 1 |
| | 5. Junior Residents | - 3 |
| 4. | Oto-Rhinolaryngology | 20/1 |
| | Staff required | |
| | 1. Professor | - 1 |
| | 2. Reader | - 1 |
| | 3. Lecturer | - 1 |
| | 4. Tutor / Registrar / Sr.Resident (with 3 years resident experience) | - 1 |
| | 5. Junior Residents | - 3 |

In connection to above departments the following ancillary staff shall be provided.

| | | |
|-------------------------------------|---|---|
| 1. Technical Assistant / Technician | - | 6 |
| 2. Laboratory Attendants | - | 7 |
| 3. Storekeeper | - | 4 |
| 4. Record Clerks | - | 4 |
| 5. Steno-typist | - | 4 |
| 6. Audiometry Technician | - | 1 |
| 7. Speech Therapist | - | 1 |
| 8. Refractionist | - | 1 |

Note:- There shall be well equipped and updated intensive care burn unit and Surgical Post operative critical care unit.

iii) OBSTETRICS AND GYNAECOLOGY

| | No.of beds / units required. |
|----------------|------------------------------|
| 1. Obstetrics | 35 |
| 2. Gynaecology | 20 |
| 3. Postpartum | 5 |
| | 60/2 |

Staff strength required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | - | 1 |
| 3. Lecturers | - | 2 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 2 |
| 5. Jr.Resident | - | 6 |

The following additional staff shall be provided.

| | | |
|---|---|---|
| 1. Antenatal Medical Officer cum Lecturer / Asst.Prof. | - | 1 |
| 2. Maternity and Child Welfare Officer cum Lectuer / Asst.Prof. | - | 1 |
| 3. Social Workers | - | 2 |
| 4. Technical Assistant / Technicians | - | 2 |
| 5. Lab Attendants | - | 2 |
| 6. Stenographer | - | 1 |
| 7. Storekeeper | - | 1 |
| 8. Record Clerk | - | 1 |

Note:

- 1) In case a super speciality is developed, it shall necessitate creation of extra beds alongwith additional staff over and above the minimum requirement stated hereinabove in accordance with the provisions of the Postgraduate Medical Education Regulations, 1971.
- 2) The teaching hospital may provided additional beds in any speciality depending upon their patients load.

CLINICAL DEPARTMENTS – INDOOR:

The following accommodation shall be available with each ward, namely:-

- 1) Accommodation to be provided for Nurses Duty Room.
- 2) Laboratory for routine examinations.
- 3) Examination and treatment room.
- 4) Ward Pantry.
- 5) Store room for linen and other equipment.
- 6) Resident Doctors and students Duty Room.

The following additional accommodation shall be provided for each of the departments.

- 1) Offices for Heads of Departments and Heads of Units.
- 2) Accommodation for the other unit staff.
- 3) Clinical demonstration rooms (at least one for each department), and
- 4) Departmental Library-cum-Seminar room (30 sq.mt) with a seating capacity of 50 students.

NB:- The size and number of staff rooms shall be as per the guidelines given in the pre and para clinical departments for the prescribed number of staff members in a department.

RESEARCH LABORATORIES:-

There shall be a Research Laboratory commensurate with the specialized work in all fields.

OPERATION THEATRE UNIT:-

The operation Theatre Unit shall have the following facilities; namely:-

- 1) Waiting room for patients.
- 2) Preparation room.
- 3) Operation Theatre
- 4) Post-operative recovery room (minimum of 6 beds).
- 5) Soiled Linen room.
- 6) Instrument room.
- 7) Sterilisation room.
- 8) Nurses rooms.
- 9) Surgeon's and anaesthetist's rooms (separate for male and female)
- 10) Assistants's room
- 11) Observation gallery for students.
- 12) Store rooms
- 13) Washing room for Surgeons and Assistants; and
- 14) Students washing up and dressing up room.

There such units may be provided for General Surgery (including one for septic cases); one for ENT, one for Orthopaedics; one for Ophthalmology and two for Obstetrics and Gynaecology.

In addition, one or more extra theatre/s for other surgical specialities and one theatre for Emergency-casualty area shall be provided.

CENTRAL STERILISATION SERVICES:-

There shall be an independent Central Sterilisation unit capable of taking the total working load of operation theatres, laboratories close to or in the operation theatre block itself. It shall have adequate equipment like bulk sterilizer with separate ends for loading unsterile material, unloading sterile, cold sterilizer, Ethylene oxide sterilizer, freon ethylene instruments and maters sterilizer, sterilier, sterile racks, mixers, and trays for instruments.

This department shall work round the clock and all materials, instruments, trays, and dressing material etc. shall be supplied round the clock.

| | | |
|------------------------|---|---|
| 1. Matron | - | 1 |
| 2. Staff Nurse | - | 4 |
| 3. Technical Assistant | - | 8 |
| 4. Technician | - | 8 |
| 5. Ward Boys | - | 8 |
| 6. Sweeper | - | 4 |

LAUNDRY :

The Central Mechanical laundry shall be provided with bulk washing machine, Hydro-Extractor, flat rolling machine. Laundering of hospital linen shall satisfy two basic considerations, namely, cleanliness and disinfection. The hospital could be provided with necessary facilities for drying, pressing and storage of soiled and cleaned lines.

| | | |
|------------------------------|---|----|
| 1. Supervisor | - | 2 |
| 2. Dhobi / Washerman / Women | - | 12 |
| 3. Packer | - | 12 |

DEPARTMENT OF RADIO-DIAGNOSIS:

The room sizes for various Diagnostic Imaging Systems shall be as per the following provision of the Atomic Energy Regulatory Board Safety Code, namely:-

“The room size of the room housing X-Ray equipment must not be less than 25 sq.m. for a general purpose X-Ray machine. In case of diagnostic X-Ray equipment operating at 125 kv or above the control panel must be installed in a separate control room located outside but contiguous to the X-Ray room. Rooms housing fluoroscopy equipment must be so designed that adequate darkness can be achieved conveniently when desired. Patient waiting areas must be provided outside the X-Ray room and a dark room must be provided”.

Accommodation shall be provided for the following, namely:-

- a) Room for 300 mA, 500 mA, 800 M.A.I.I.TV.System, Fluroscopy System (36 sq.m).
- b) Ultrasound Room (15 sq.m.)
- c) Room for 60 mA Mobile X-Ray System (15 sq.m.)
- d) Accommodation for CT Scan System. There shall be three equipment rooms, (examination room, control room and computer room). In addition a services room for Electrical Panels, UPS and Servo Stabilizer shall be provided. The total area requirement is 80 sq.m.;
- e) There shall be preferably a Magnetic Resonance Imaging (MRI) System. The space requirement shall be according to the standard specifications.
- f) Store room for X-Ray films and related material (15 sq.m.)
- g) Museum (25 sq.m.)
- h) Waiting room for patients, enquiry office and staff rooms shall be provided as per requirement.

Staff required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | - | 1 |
| 3. Lecturers | - | 2 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 3 |
| 5. Radiographic Technicians | - | 8 |
| 6. Darkroom Assistants | - | 4 |
| 7. Stenographers | - | 1 |
| 8. Storekeeper | - | 1 |
| 9. Record clerk | - | 1 |

DEPARTMENT OF ANAESTHESIOLOGY:

Accommodation for the department of Anaesthesia should be provided for staff on duty in operation theatres in that block itself as far as possible in addition to following accommodation; namely:-

- 1) Offices for Heads of Departments and Heads of Units.
- 2) Accommodation for the other unit staff.
- 3) clinical demonstration rooms (at least one for each department) and
- 4) Departmental Library-cum-Seminar room (30 sq.m.) with a seating capacity of 50 students.

Staff required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | - | 2 |
| 3. Lecturers | - | 3 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 5 |
| 5. Technical Assistants / Technicians | - | 8 |
| 6. Steno-typist | - | 1 |
| 7. Storekeeper | - | 1 |
| 8. Record clerk | - | 1 |

OPTIONAL DEPARTMENTS:

DEPARTMENT OF RADIOTHERAPY:-

The department needs to be planned in such a way that there is a minimum movement of Radio-active sources through the general corridors of the hospital. It is therefore desirable that the outpatient wing, treatment wing, dosimetry / planning equipments, wards, operation theatre and other facilities are located in the same block may be on two floors. It should be closely connected with the rest of the hospital to facilitate free interaction of the facilities of various disciplines for multidisciplinary management of the patients. Separate rooms should be provided for Teletherapy Unit (100 sq.m.area), intracavitary treatment room (50 sq.m. area) interstitial, endocavitary, surface mould therapy room (50 sq.m.area), planning room (50 sq.mt.), rooms for metalling treatment planning equipments, mould room (50 sq.m.area), record room (100 sq.m.), medical physics laboratory (50 sq.m. aea) outpatient waiting room (200 sq.m.area), indoor beds (at least 30 beds and an isolation ward) (200 sq.m.area), day care ward for short chemotherapy / radiotherapy procedures etc. (70 sq.mt). The minimum floor area shall be 2000-2500 sq.m. Prior BARC approval of the radiation therapy rooms / plan alongwith complete layout of the entire department is mandatory.

Staff required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | | |
| 3. Lecturers | - | 1 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 1 |
| 5. Physicist | - | 1 |
| 6. Radiotherapy Technicians (for every treatment unit) | - | 2 |
| 7. Darkroom Assistants | - | 1 |
| 8. Stenographers | - | 1 |
| 9. Storekeeper | - | 1 |
| 10. Record clerk | - | 1 |

DEPARTMENT OF PHYSICAL MEDICINE AND REHABILITATION:

Accommodation (1500 sq.meter) shall be provided for professor and other teaching staff, paramedical personnel and non-medical staff, evaluation room, physiotherapy, Electrotherapy, Hydrotherapy, Occupational Therapy, Speech therapy, separately, as far as possible.

Staff required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | | |
| 3. Lecturers | - | 1 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 2 |
| 5. Junior Residents | - | 1 |

This Department shall consist of :

| | | |
|---|---|---|
| 1. Physiotherapist | - | 2 |
| 2. Occupational therapist | - | 2 |
| 3. Speech therapist | - | 1 |
| 4. Prosthetic & Orthotic Technicians- | | 2 |
| 5. Workshop workers | - | 6 |
| 6. Clinical psychologist | - | 1 |
| 7. Medico Social Worker | - | 1 |
| 8. Public Health Nurse / Rehabilitation Nurse-1 | | |
| 9. Vocational Counsellor | - | 1 |
| 10.MRW / Technician / Therapist | - | 4 |
| 11. Stenographers | - | 1 |
| 12. Storekeeper | - | 1 |
| 13. Record clerk | - | 1 |
| 14. Class IV Workers | - | 4 |

CLINICAL DEPARTMENTS – OUTDOOR:

Accommodation shall be provided for

- 1) Waiting / reception space rooms for patients and attendants.
- 2) Enquiry and record room.
- 3) Four examination rooms (cubicles) and case demonstration rooms to be provided for each department in outdoor in self-contained blocks with their sub-sections. Each clinical unit in the out-patient department shall be provided with examination cubicles.
- 4) Dispensary.
- 5) The following additional accommodation shall be provided in the department specified below:
 - a) In Surgery & its specialities;
 - Dressing room for men and women patients respectively.
 - Operation theatre for out patient surgery.
 - b) In Ophthalmic Section:
 - Refraction rooms, dark rooms, dressing rooms etc.
 - c) In orthopaedics Section:
 - Plaster room, Plaster-cutting room outpatient X-Ray plant desirable.

- d) In ENT Section:
Sound proof audiometry Room, ENG laboratory and speech therapy facilities,
- e) In Paediatrics:
Child Welfare including Immunization Clinic.
Child Guidance Clinic
Child Rehabilitation Clinic including facilities for speech therapy and occupational therapy.
- f) In Obstetrics & Gynaecology:
Antenatal Clinic, Family Welfare Clinic
Sterility Clinic
Cancer Detection Clinic.

There shall be an additional students duty room (separately for males and females) attached to the Labour room.

- g) In Dental Section:
Accommodation for Dental Surgery and prosthetic dentistry.

Staff required:

| | | |
|---|---|---|
| 1. Professor | - | 1 |
| 2. Reader | | |
| 3. Lecturers | - | 1 |
| 4. Tutors / Registrar / Sr.Resident (with 3 years experience). | - | 1 |
| 5. Dental Technicians | - | 4 |
| 6. Storekeeper cum clerk | - | 1 |

Reception and Waiting Hall for Patients.

A seminar room for students.

CENTRAL LABORATORIES:

There shall be well equipped and updated central laboratories preferably alongwith common collection center for all investigations in histopathology, cytopathology, haematology, immunopathology, microbiology, biochemistry and other specialized work, if any.

CENTRAL CASULTY DEPARTMENT:-

There shall be a Central Casualty department wherein consultancy services shall be provided by the teachers of relevant Departments.

Accommodation for Resuscitation Services including Oxygen supply, ventilators, defibrillator and two fully equipped disaster trolleys (emergency trolleys), Emergency X-Ray, investigative facilities, Operation theatre etc., shall be provided. These shall all be fully equipped.

A casualty ward with at least twenty beds is also necessary accommodation for staff on duty (Doctos, Nurses, Students and others) shall be provided.

Adequate sanitary arrangements (toilet and bathrooms) & drinking water facilities for patients, their attendants and the staff of the department shall be provided in the respective blocks.

| | | |
|---|---|-------------|
| 1. Casualty Medical Officer | - | 4 |
| 2. Operation Theatre staff to function on 24 hours round the clock basis. | | as required |
| 3. Stretcher bearers | - | 6 |
| 4. Receptionist-cum-clerks | - | 2 |
| 5. Ward Boys | - | 6 |
| 6. Nursing and Para-medical staff | - | 6 |
| 7. Clinical staff for casualty Beds | - | as required |

CENTRAL HOSPITAL PHARMACY:-

It shall have qualified pharmacist incharge and other staff certified by statutory authorities to dispense the drugs.

CENTRAL KITCHEN:-

The Central Kitchen shall be commodious, airy, sunny, clean with proper flooring with exhaust system. The cooking should be done either by electricity or by gas. It should be provided with proper and clean working platforms. A separate store area with proper storage facilities should also be provided. The service trolleys for food should be hot and closed stainless steel ones.

INCINERATING PLANT:

A modern Incinerating plant capable of taking hospital waste shall be provided.

CENTRAL DISINFECTION PLANT:-

There shall be Central disinfection plant.

STAFF QUARTERS:-

There shall be sufficient number of quarters for covering 100 per cent of the total nursing staff and resident doctors staff strength.

There shall be sufficient number of quarters for covering at least 50 per cent of the teaching staff and class IV staff strength.

CENTRAL HOSPITAL STORES:-

There shall be a central hospital stores for stocking & supply of drugs, equipments etc.,

HOSTELS FOR STUDENTS:-

It is desirable that Medical College should be a residential unitary complex. Each hostel room shall not have more than three occupants.

- 24) On receipt of the application for affiliation for the II MBBS Para clinical course from the Management of the Medical College, the University shall send it's Inspection Commission atleast three months before the date of commencement of I MBBS examination. A Bank draft for 50,000/- (Rupees fifty thousand only) drawn infavour of the Registrar, NTR University of Health Sciences, Vijayawada shall be enclosed along with application towards the Inspection fee.
- 25) The Inspection Commission sent by the University shall inspect the facilities available by the Management of the College and report to the University as to whether all the facilities required to be provided by the College or provided. The Inspection Commission shall also point out in its report the lacunae, if any, in the fulfillment of the conditions, required to be fulfilled and also advise as to the capability of the College to rectify the lacunae with in a period of two months. In case there are lacunae in the fulfillment of the conditions, the University may conduct re-inspection on payment of sum of Rs.10,000/- (Rupees ten thousand only) towards the re-inspection and shall received in a final report from the Inspection Commission.
- 26) After the detailed examination of the final report of the Inspection Commission, if the University is fully satisfied as to the fulfillment of the conditions for the affiliation for the II year MBBS (1 1/2 years) para clinical degree course of study, on receipt of the intimation from the applicant's college that all the staff members appointed in pursuance of the above statutes or in a position to start the teaching course the University shall after collecting a sum as specified by the Executive Council from time to time towards the affiliation fee, administration fee for the II MBBS course of study (1 1/2 years). It shall be competent for the University with draw the provisional affiliation granted here in by giving three months notice stating the reasons there for to the Management of the College.

27) 1) The provisional affiliation granted above by the University shall be only for the II MBBS course of study. There upon the University shall permit the College to admit the students in the II MBBS Degree course of study.

2) The Medical College shall furnish a budget for each year of study and a separate development budget which will cover the expenses for the fulfillment of the requirements prescribed for the final MBBS course of study.

29) *After the receipt of renewal of permission by Government of India /* By the time only six months period is left for II MBBS students to take up the II MBBS examinations the Management of the Medical College shall apply to the University for affiliation of the final MBBS degree course of study. In the said application for the following details shall be furnished, before applying so the following facilities and departments with the staff members stipulated here in shall also have to be provided for by the Management of the Medical College:

1) i) The departments of ENT, Ophthalmology, Pediatrics and Orthopedics with the development of the hospital and posting of the staff as prescribed.

ii) The department of Forensic Medicine with the staff as prescribed for the commencement of the second clinical year:

iii) The department of Paediatrics, Orthopaedics, ENT and Ophthalmology (well organised) shall be regular units with the unit Chief in the cadre of Professor with three Assistants and adequate nursing and para-medical staff; and

a) (I) Department of Radiology

| | |
|--|-----------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Professor (Radio Diagnosis) | 1 (one) |
| 3. Assistant Professor (Radiotherapy) | 1 (one) |
| 4. Assistant Professors | 2 (two) |
| 5. Tutors | 2 (two) |
| 6. Physicist | 1 (one) |
| 7. Radiographic technicians | 8 (eight) |
| 8. Radiotherapy technicians | 4 (four) |
| 9. Dark room Assistant | 4 (four) |
| 10. Steno-Typist | 1 (one) |
| 11. Store Keeper / Jr. Assistant | 1 (one) |
| 12. Junior sanitary workers | 2 (two) |

ii) Department of Anaesthesia

| | |
|--|-----------|
| 1. Professor & Head of the Department. | 1 (one) |
| 2. Professor | 1 (one) |
| 3. Assistant Professors | 4 (four) |
| 4. Tutors | 6 (six) |
| 5. Technicians | 8 (eight) |
| 6. Steno-Typist | 1 (one) |
| 7. Store Keeper / Jr. Assistant | 1 (one) |
| 8. Junior sanitary workers | 2 (two) |

The above staffing patterns may be deleted as they are already furnished as per Minimum Standard Requirements for the Medical College for 100 admissions.

30) On receipt of the application for the final year MBBS from the Management of the Medical College the University shall send its Inspection Commission at least three months before the date of commencement of the II Year MBBS examinations. The application for affiliation shall be accompanied by a bank draft for Rs.50,000/- (Rupees fifty thousand only) drawn in favour of NTR University of Health Sciences, Vijayawada towards inspection fee.

- 31) The Inspection Commission sent by the University shall inspect the facilities made available by the Management of the College and report to the University as whether all the facilities required to be provided by the College are provided. The Inspection Commission shall also point out in its report the lacunae, if any, in the fulfillment of the conditions required to be fulfilled and also advise as to the capability of the College to rectify the lacunae within a period of two months. In case there are lacunae in the fulfillment of the conditions the University may conduct reinspection on payment by the applicant a sum of Rs.10,000/- (Rupees ten thousand only) towards the reinspection fee and shall receive a final report from the Inspection Commission.
- 32) After a detailed examination of the final report of the Inspection Commission, if the University is fully satisfied as to the fulfillment of the condition for the affiliation for the final MBBS Degree course of study, on receipt of the intimation from the applicant's college that all the staff members appointed in pursuance of the above statutes are in a position to start the teaching course, the University shall, after collecting a sum as specified by the Executive Council from time to time towards the affiliation fee and administration fee for the final MBBS degree course of study shall grant provisional affiliation for the Final MBBS course of study. It shall be competent for the University to withdraw the provisional affiliation granted herein by giving three months notice stating the reasons therefore of the Management of the College.
- 33) 1) The provisional affiliation granted above by the University shall be only for the final MBBS course of study. Thereupon the University shall permit the College to admit the students in the final MBBS course of the study.
2) The Medical College shall furnish a budget for each year of study and a separate development budget which will cover the expenses for fulfillment of the requirements prescribed for the compulsory rotatory internship course of study.
- 34) Compulsory Rotatory Resident Internship (CRRI) Training:
By the time only six months period is left for the final MBBS students to take up the final MBBS examination the management of the Medical College shall apply to the University for affiliation of Compulsory Rotatory Resident Internship (CRRI) training programme. Before applying so, the following facilities and departments with the staff members stipulated herein shall have to be provided by the management of the medical college. The details regarding these provisions shall be furnished in the application for affiliation.
- i) teaching hospitals;
 - ii) rural centres or the primary health centres with suitable staff and equipments;
 - iii) quarters exclusively for internees with all facilities for boarding and lodging at the teaching hospitals;
 - iv) Accommodation for about 100 men and women candidates who are to be posted in Medical, Surgical and Obstetrics and Gynaecology ward;
 - v) Telephone paging facilities in internees quarters;
 - vi) Accommodation with all facilities of 25 men and women students and staff at the rural centre or centres and the rural centres are well in position with the following staff and facilities:
- | | |
|--|---|
| 1) Medical Officer on Health-cum-Assistant | 1 |
| 2) Lady Medical Officer | 1 |
| 3) Medico Social Worker (One male and one female) | 2 |
| 4) Public Health Nurses | 1 |
| 5) Health Inspectors | 2 |
| 6) Technicians | 2 |
| 7) Attender | 1 |
| 8) Van Driver | 1 |
| 9) Store Keeper | 1 |
| 10) Record Clerk | 1 |

The centre shall be suitably equipped for carrying out the Community Health Services and training the Compulsory Rotatory Resident Internship Trainees.

vii) The following facilities shall also be provided in the teaching hospital:

- a) Workshop and electric sections;
- b) Canteen;
- c) Laundry;
- d) Auditorium
- e) Documentation room for maintaining documents of all sections like drugs, details about poisoning cases, operation cases, causes of deaths and details of all cases; and
- f) Transport facilities in college and hospital with 2 vans for students, 6 ambulances, 2 mortuary vans and 2 pickup vans.

In every medical college one Medical Education Unit as per MCI norms to be established as follows:-

The National Conference on “ Training Teachers Today for Tomorrow’s need” held under the auspices of Medical Council of India (MCI) in September, 1994 as well as the National Workshop on Medical Education held under the auspices of the council in 1996 made recommendations for the establishment of Medical Education Unit in each medical college. Based on the above recommendations the council issued a circular to Principals / Deans of all the medical colleges in the country in January, 1997 to take immediate steps to establish Medical Education Unit on a priority basis keeping in view the following objectives:

1. Faculty Development:- To train teachers of medical colleges in educational science and technology and to help them in framing objectives, selecting appropriate teaching / learning techniques, instructional material and assessment devices to find out whether the instructional material and assessment devices to find out whether the objectives have been achieved or not. For this purpose workshops of 2-3 days duration, short duration training courses, certificate courses etc. could be arranged.
2. To conduct and support research in medical education: This may be in the form of inquiry driven strategies in various aspects of medical education evolving innovative techniques in teaching and learning and their evaluation. Special emphasis to be laid on preparing self-learning modules and packages for providing clinical skills to the students.
3. To act as resource center for educational materials and information and audio-visual media support.
4. To help in Continuing Medical Education of private practitioners.
5. Policy development, coordination for furtherance of medical education by establishing task forces and consortiums.
6. Grant writing.
7. Developing system of assessment / testing e.g. programme evaluation, student evaluation and faculty evaluation.
8. Developing communication links e.g. newsletter, network etc.
9. Education lobbying –liaison with MCI, Ministry of Health & International agencies.
10. Instructional design-developing curricula and providing guidelines for implementing these.

With reference to the above circular of the council, a number of medical colleges responded favourably and established Medical Education Units. The Medical Council of India Regulations of Graduate Medical Education, 1997 which was published in the Gazette of India dt. 17th May, 1997 has made it mandatory that Medical Education Units / Departments should be established in all the medical colleges with a view of enabling faculty members to avail of modern educational technology while teaching the student, faculty development and provide learning resource material for teachers.

36. On receipt of the application for affiliation of Compulsory Rotatory Resident Internship training the University shall send an inspection committee at least three months before the date of commencement of final year MBBS degree examination. A bank draft for Rs.50,000/- (Rupees fifty thousand only) drawn in favour of the Registrar, University of Health Sciences, Vijayawada shall be enclosed along with the application towards the inspection fee.

37. The Inspection Committee sent by the University shall inspect the facilities made available by the management of the college and report to the University as to whether all the facilities required to be provided by the college provided. The inspection committee shall also point out in its report the lacunae, if any, in the fulfilment of the conditions required to be fulfilled and also advise as the capability of the college to rectify the lacunae with a period of two months. In case there are lacunae in the fulfilment of the conditions the University may conduct such re-inspection on a payment of a sum of Rs.10,000/- (Rupees ten thousand only) towards re-inspection fee and shall receive a final report from the Inspection Committee.
38. After a detailed examination of the final report of the Inspection Committee the University is fully satisfied as to the fulfilment of the conditions for the affiliation of the Compulsory Rotatory Resident Internship Training course of study and on receipt of the intimation from the applicant college that all the staff members appointed in pursuance of the above statutes are in a position to start the compulsory Rotatory Resident Internship Training, the University shall after collecting a sum as specified by the Executive Council from time to time towards the affiliation fee and administration fee for the Compulsory Rotatory Resident Internship Training, grant provisional affiliation for the Compulsory Rotatory Resident Internship Training. It shall be competent for the University to withdraw the provisional affiliation granted herein by giving 3 months notice stating the reasons therefore to the management of the college. The medical college seeking affiliation shall follow the course contents and regulations of the Medical Council of India. The college shall also follow the modifications in the course contents suggested by the Boards of Studies and Standing Academic Senate of the University from time to time.
39. All the norms prescribed by the Medical Council of India shall be applied by the University in the area not covered by the framed by the University of Health Sciences, Vijayawada for the starting of a new Medical College. Thereupon the University shall permit the college to admit the students in the Compulsory Rotatory Resident Internship Training course of study.
40. It shall be competent for the University to inspect the Medical College atleast once in five years to observe whether the quality of service teaching and research are properly maintained.
41. The University shall also be competent to send observers during examinations at their discretion.
42. The college authorities shall send to the University a report regarding the service, academic and research activities of the college and also annual staff return and vacancy position.
43. On the completion of the course of study by the first batch of students and on their appearing for the University examinations, the management of the college may make an application to the University for the grant of full affiliation of the MBBS degree course of study. The University shall, after satisfying itself as to the performance of the college during the previous years and subject to the statutes and procedures as in force from time to time grant full affiliation to the MBBS degree course of study
44. The Executive Council shall have the power after due enquiry to withdraw full affiliation granted to a college, provided that before coming to such a decision the Executive Council inform the governing body of the college concerned of its findings after enquiry and shall allow it an opportunity of making such representation as it may deem fit and shall record its opinion on the representation so made.
45. It shall be competent for the University to send an Inspector at any time to inspect the Medical College after two weeks notice to the Management of the College and on receipt of report from the Inspector the University may take any decision which in the opinion deems fit and necessary.
46. The Management of the affiliated college may apply to this University for increase in under graduate courses up to a maximum of 150 (One hundred fifty) seats only. Permission for increase in seats beyond 150 only will not be granted.

47. It shall be competent for the Executive Council to entertain or decline for reasons to be recorded in writing the application received from the Management of the Medical College for increase in the number of seats in the College subject to the sealing specified supra. The University will review the clinical facilities provided by the Institutions and progress of the clinical performance of the Hospitals vis-à-vis the population potential around the hospital and public interest covered at large, while entertaining the application for increase of seats.
48. No medical college shall apply to the University for increase in seats until the first batch of students as successfully completed the course and at the college and the MBBS degree so obtained is recognised by the Medical Council of India and after obtaining the full affiliation from the University.
49. The Management of the Medical College shall satisfy the University regarding the following norms as prescribed by the University and Medical Council of India in this regard from time to time while making application for increase of seats in form no.IV annexure with these statutes.
- i) Proportionate increase in the staff pattern
 - ii) Proportionate increase in the equipment and laboratory facilities: and
 - iii) Proportionate increase in the accommodation: and
 - iv) Expansion of library
50. On receipt of the application form from the Management of the Medical College for increase in seats, the University shall appoint an Inspection Committee to inspect the suitability of the facilities provided by the College for such increase in seats. A sum of Rs.25,000/- (Rupees twenty five thousand only) or such amount as may be prescribed by the Executive Council from time to time shall be paid by the applicant through a Demand Draft drawn in favour of the Registrar, NTR University of Health Sciences, Vijayawada towards inspection fee.
51. The Inspection Committee shall report to the University as to whether all the requirements specified have been provided by the management of the college. The Inspection Committee shall also point out in its report the lacunae, if any in the fulfillment of the requirements to be provided and also advise as to the capability of the Management of the college to rectify the lacunae within a period of two months. The University shall conduct reinspection on payment of a sum of Rs.10,000/- (Rupees ten thousand only) or such amount as may be prescribed by the Executive Council from time to time made by the Management of the Medical College by means of a Demand Draft in favour of the Registrar, NTR University of Health Sciences, Vijayawada towards the reinspection fee and shall receive a final report from the Inspection Committee.
52. On receipt of the final report of the above Inspection Committee and if the report is found satisfactory, the University shall recommend to the Medical Council of India for its inspection and concurrence.
53. On receipt of the conference from the Medical Council of India to increase the seats in the College concerned the University shall grant permission to the college concerned to admit students in the seats so increased.
54. The permission granted to the Management of the Medical College by the University is liable to be withdrawn if any one of the norms prescribed is violated. In case such withdrawal, the permission shall be restored only when a satisfactory report is received by the University on an inspection that the norms prescribed have been duly complied with.
55. No affiliation Institution shall apply to the University for increase in seats in Undergraduate courses as well for starting of Postgraduate courses simultaneously. Such applications can be made in different academic years.
56. In case of the institutions controlled by Government / University of Health Sciences application of statutes 7 (a) (b) (c) shall be decided by Executive Council on the basis of merit. Government also shall sanction administrative fee and affiliation fee as grant to University.
57. The general statutes on affiliation which are not covered in this special statute on affiliation of Medical Colleges shall be binding in addition to the above statutes.

FORM -I
(SEE STATUTE)

APPLICATION FOR CERTIFICATE OF REGISTRATION AND CONSENT (OR)
PROVISSIONAL AFFILIATION.

1. Name/Name(s) of the applicant(s) Trust / :
Society.
2. Name of the college proposed. :
3. Details of the constitution of the Managing Body :
of college, copies of bylaws / terms of The trust
/ society etc. to be enclosed.
4. Addressed to which communications are to be :
Sent, with telephone number if available.
5. Address where the college is proposed to be :
located.
6. Number of candidates to be admitted in the first :
year of the MBBS degree course.
7. Details regarding availability of land, ready built :
area and other physical infrastructures, etc. of
the college and the hospital (copies of title
deeds and documents and latest encumbrance
certificate, etc. to be enclosed).
8. Particulars regarding arrangements of residential :
quarters for the staff.
9. Details regarding availability of playgrounds. :
10. Details regarding hostel facility proposed . :
11. Details of facilities and other requirements :
Fulfilled as stipulated in the statutes of the
University for issue of certificate or Registration
(with necessary breakup details).
12. Details of ear-marked assets and resource to be :
utilised for running the proposed Medical
College.
13. Details of the Master plan regarding the :
development of college and hospital, strength of
beds and other necessary facilities available
(plan shall be enclosed). Separate plans
earmarking space allotted to hostel, staff
quarters, Playground etc. to be furnished.

14. Details regarding the availability of water : supply, electricity supply, transport etc.
15. Details regarding the financial soundness of the trust / society. (If the society is already **existing** correct information about funds allotted towards proposed Medical College - **Resolutions of Society** to be enclosed. If the Society is **new** sources of income to establish and to run the proposed Medical College – **Resolutions of society to enclosed.**)
16. Whether the trust / society has the capacity to deposit : the amount specified in the statutes.
17. Details regarding the annual come of the trust / society etc.
18. Particulars of fee remittance made by the applicant trust/society.
19. Whether the trust / society fulfills all the conditions and requirements as specified in the statutes to apply for certificate of registration.

Station:
Date:

Signature of the Applicant

List of Enclosures:

1. Certified copy or essentiality certificate issued by the Government.
2. Certified copy of byelaws / memorandum and articles of association / trust deed etc.
3. Financial Resources:
 - a) An stipulated in the guidelines of Medical Council of India.
 - b) Annual reports and audited balance sheets for the last 3 years.
4. Physical requirements:
 - a) An stipulated in the guidelines of Medical Council of India.
 - b) Certified copy of the title deeds of the total available land as a proof of ownership.
 - c) Proof of ownership of the existing hospital.
5. Certified copy of zoning plans of the available sites indicating their land use.
6. An undertaking that the management shall apply for affiliation for the new medical college after getting the permission from the Government of India and also give declaration that they will confirm and abide by provisions of the University Act, statutes on affiliation and ordinances, of the Executive Council that are in force and that may be framed in future.

FORM-

(SEE STATUTE)

CERTIFICATE OF REGISTRATION

Under Statute _____

of the NTR University of Health Sciences (Affiliation of Medical Colleges) statutes, it is hereby certified that the application of _____ College for the starting of MBBS degree course of study has been registered with the NTR University of Health Sciences, Vijayawada.

The issue of this certificate of Registration along shall not confer any right on the applicant college to start the MBBS degree course.

This Certificate is valid for a period of one year from the date of issue.

(By order of the Executive Council).

Station:

Signature of the Registrar

Date:

(Seal)

FORM (CONTINUED)
NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA

No.

To

Sir,

Sub: _____ letter of consent for giving affiliation - Reg.

Ref.:

With reference to the letter cited above, I am to inform you that the NTR University of Health Sciences has No Objection to consider the application for affiliation of _____ for a new dental college to be started at _____ in the State of Andhra Pradesh for _____ admissions into BDS course after obtaining the permission from Government of India to establish the same.

This letter of consent does not confirm any right on the management for granting of affiliation by the University. This letter is issued only for fulfilling the qualifying criteria to apply to the Central Government for permission to establish New Dental College as per the establishment of new dental colleges regulation 1993.

When once the Government of India permits the said management to start the dental college, the said management shall apply for affiliation in the prescribed application form as per the statute on affiliation, NTR University of Health Sciences, Andhra Pradesh, giving all the details for further scrutiny and consideration before actually starting the college and admissions are made and under no circumstances the management shall admit the students before affiliation is granted by the NTR University of Health Sciences.

This letter of consent will be valid for a period of 2 years from its date of issue.

Yours faithfully,

REGISTRAR

Copy to:

The above letter of consent for affiliation was changed and issued to Medical College in the State (for existing and ensuing) as follows:-

FORM -

No.

University of :

Place:

Dated the

CONSENT OF AFFILIATION

On the basis of the report of the Local Committee the University of NTR University of Health Sciences, Vijayawada has agreed, in principal, to affiliate the proposed Medical College to be established at by the (Name of the Person / Society) to grant of permission by the Government of India, Ministry of Health and Family Welfare, New Delhi under session 10 (A) of the Indian Medical Council Act, 1956 (102 of 1956).

REGISTRAR

FORM -III
(SEE STATUTE)

Application for Provisional Affiliation by _____

College to start first, second and final year MBBS degree course of study

- 1) Name and address of the applicant. :
- 2) Location of College with full address with telephone number, if available. :
- 3) Does the college satisfy all the conditions stipulated in the statutes for the affiliation (with full details with evidence therefor). :
- 4) Does the college possess the proceedings consisting certificate of Registration and Provisional affiliation issued by NTR University of Health Sciences, Vijayawada for starting 1st year MBBS degree Course by the college (copy enclosed). :
- 5) Whether the No Objection Certificate from the Medical Council of India has been obtained by the college (produce evidence). :
- 6) Whether the clearance and concurrence of the Government of Andhra Pradesh been obtained by the college (produce evidence). :

Station:

Date:

Signature of the Applicant
Name & Designation with
seal

The following modified application proforma to the above Form-III may be approved.

FORM
(SEE STATUTE)

Application for Provisional Affiliation by

College to start second and final year MBBS degree course of study

1. Name and address of the applicant. :
2. Location of College with full address :
with telephone number, if available .
3. Does the college satisfy all the :
conditions stipulated in the statutes
for the affiliation (with full details
with evidence therefor).
4. Does the college possess the :
proceedings consisting certificate
of Registration and Provisional
affiliation issued by NTR
University of Health Sciences,
Vijayawada for starting 1st year
MBBS degree Course by the college
(copy enclosed).
5. Whether the No Objection :
Certificate from the Medical
Council of India has been obtained
by the college (produce evidence).
6. Whether college / Management has :
provided required staff,
accommodation, equipment and
furniture etc.
 - 1) for Second MBBS Course
 - 2) for Final MBBS Course
 - 3) for CRI Programme.
 [If so furnish the evidences as
enclosures.)
7. Whether the College / Management
has fulfilled the deficiencies
pointedout by previous inspection
committees. If so furnish
compliance report about fulfillment
of deficiencies.

Station:

Signature of the Applicant

Date:

FORM

(SEE STATUTE)

Application for increase in the number of seats by _____

_____ College for MBBS degree course of study.

1. Name and address of the applicant :
2. Location of College with full address with telephone number, if available :
3. Does the college satisfy all the conditions stipulated in the statutes of the University for increase in the number of seats (full details with evidence therefor) :
4. Has the college obtained provisional affiliation for all the three years and for CRRI training and full affiliation for the course (full details with University provisional order number and date / full affiliation order number and date and copies thereof to be enclosed.) :
5. Number of students permitted for each year of course (full details year wise to be furnished) :
6. Has the first batch of students completed The course of study, appeared for University examinations and degree Obtained by them has been recognised By the Medical Council of India. :
7. Percentage of result during the previous Years (yearwise details) :
8. Whether the increase in seats now applied for is within the maximum ceiling prescribed in the statutes.

Station:

Signature of the Applicant

Date:

EQUIPMENT (FOR VARIOUS DEPARTMENTS IN THE COLLEGE AND HOSPITALS)

Note: These recommendations are minimum requirements and will serve as a guide to the institutions with regard to the equipment required. They are not meant to be an exhaustive list and the staff of the various departments will use their initiative and experience for equipping the departments.

A. NON CLINICAL DEPARTMENTS:-

- a) Furniture and Fixtures: Office tables small and big, office chairs, museum almirahs study tables, staff room and library almirah, store almirahs, store racks, lockers with coat hangers and drawers as required. Laboratory benches with cup-boards and rack for reagenet bottles and laboratory glasswares as required, water and gas and electric points operation tables etc., as necessary.

| NAME OF THE ARTICLE | QUANTITY REQUIRED FOR 100 ADMISSIONS. |
|---|--|
| Table with marble or stainless steel tops 6'1" x 2' x 3' | 15 |
| Tables with marble tops or stainless steel, Half standard size. | 5 |
| Drill machine | 2 |
| Hand saw | 3 |
| Band saw for sectioning body and limbs | 1 |
| Stools, preferably metal | 60 |
| Brain knife | 3 |
| Mortuary cooler with arrangement to keep at least 8 bodies or suitable alternative arrangement. | ½ |
| Storage tank to hold 10 cadavers, made of concrete with copper lid. | 1 |
| Plastic tanks for storing soft and dissected parts. | 10 |
| Trolley Table (Steel, Light) | 3 |
| Projectors including overhead projectors | 2+2 |
| X-ray viewing lobby. | 3 |
| Charts, Diagrams, Models, Slides etc. | As required |
| Dissecting instruments | As required |
| Meat cutting machine for thin body sections (trans and vertical) for gross anatomy sectional study. | 1 |

APPARATUS AND INSTRUMENTS FOR HISTOLOGY:

| | |
|---|----|
| Microscopes, Monocular | 60 |
| Dissection Microscope | 5 |
| Microtomes, rotary | 2 |
| Microtomes, Sledge, Large cutting | 1 |
| Cabinet for slides (1000) | 6 |
| Incubator | 1 |
| Paraffin embedding bath | 1 |
| Hot plates for flattening sections | 2 |
| Hot air cover for drying slides (45 °C) | 1 |
| Balance Analytical capacity 200 gms. and Sensitivity 1/10 mg. | 1 |
| Balance Earanger capacity 6 kilos Sensitivity, 1/5 grams. | 2 |
| Refrigerators | 2 |
| Distilled water still-menesty type capacity gallon per hour | 2 |
| Diamond pencils | 4 |
| 7 Colours marking pencils | 2 |

ANATOMY MUSEUM :

| | |
|--|-------------|
| Skeletons articulated | 5 |
| Bones (Dis-articulated) sets | 25 |
| Specimen jars | As required |
| Racks steel | As required |
| Embalming machines for cadavers | 2 |
| Computer for keeping student records, marks, stores etc. | |

2) PHYSIOLOGY DEPARTMENT:

a) Office table, small and big, office chairs, museum almirahs, study table, staff room and library almirahs, stock almirahs, store room racks, laboratory benches with cupboards and racks for reagent set up for experimental physiology including Sherrington Starling Kymograph (preferably electrically driven) Myograph stand, inductorium, simple key short circulating key, pohl's commutator, vibrating interrupter, Muscle through, Muscle liver, Muscle grip of femur clamp, Hook and weight set, heart liver, frog board for dissection, enamel tray for above, frog board cork-lined with boss-head-36 seats + 6 spares.

Low voltage units, for tapping 2 and 4 volts for stimulation, at each seat – as required.

Note: 1. Time mark can also be made available at each seat alongwith the low voltage unit.

7. Electronic stimulators, students type can be used instead of low voltage units Nife cells. This will also dispense with the need for induction coil interrupter, Transistor ones are preferred.

| | |
|--|--------------|
| Electric time markers, 100 / Sec. | 6 |
| Tuning fork, time marker, 100 / Sec. | 6 |
| Electrodes, X-blocks, burette clamps, enamel bowls brass uprights, with coarse and fine adjustments basin, spirit lamps, copper wire (double cotton covered) Kymograph paper etc. | As required. |

(b) MAMMALIAN EXPERIMENTS:-

| | |
|---|--------------|
| Large extension Kymographs – Brodie-Starling complete with respiration pump, motor time marker manometer etc. | As required |
| Operation table | 1 |
| Volume recorders | 6 |
| Dale's bath for internal organs | 15 |
| Isolated organs bath for students complete with liver etc. | 25 |
| Animal Weighing Machine, for small and big animals (for each) | 1 |
| Marry's tambour | 20 |
| Venus and arterial canula (different sizes) (each) | 12 |
| Smoking outfit, with fume cupboard | 1 |
| Varnishing outfit, for long and short papers. | 1 |
| Anaesthesia box. | 3 |
| Surgical instruments for operative procedures, syringes, pulleys, etc. | As required. |

(c) HUMAN AND OTHER EXPERIMENTS:-

| | |
|---|------|
| Microscopes, Oil immersion | 36+6 |
| Demonstrations eye piece | 3 |
| Double Demonstration eye piece | 3 |
| Stage incubator | 1 |
| Westergren's Pipettes for E.S.R. on stand (with space pipettes) | 35 |
| Perimeter priestly Smith S/LP.984 B&T | 6 |
| Haemoglobinometer, Sahli or Hellige (with spaces) | 36 |
| Haemocytometers | 36 |
| Sphygmomanometer | 12 |
| Stethoscopes | 12 |
| Stethoscopes, Demonstration with multiple ear pieces | 2 |
| Polygraph | 2 |
| Venus pressure apparatus | 2 |
| Spirometer, Ordinary | 6 |
| Gas analysis apparatus, Haldane's students type | 1 |
| Van Slyko's apparatus manometric | 2 |
| Gas analyzer- Automatic for CO ₂ , O ₂ , N ₂ | 1 |
| Douglas bag, complete | 6 |
| Basal metabolism apparatus | 1 |
| Erogograph Mosse's | 6 |
| Clinical thermometer | 12 |
| Compas | 10 |
| Thermanaesthesiometer | 3 |
| Algometer | 3 |
| Apparatus for passive movement | 1 |
| Knee hammer | 12 |
| Stethograph | 10 |
| Bicycle ergometer | 4 |
| Olfactomer | 1 |
| Ophthalmoscope | 2 |
| Schematic eye | 2 |
| Phakoscope | 1 |
| Perimeters, with charts | 2 |
| Colour perception lantern Edridge Green | 1 |
| Maddox rod | 1 |
| Newtons colour wheel | 1 |
| Tuning forks to test hearing 32-10,000 (sets) | 2 |
| Dynamometer | 1 |
| Otorhinolaryngoscope | 3 |
| Steriliser Electric | 2 |
| Instrument trolley. | 1 |
| Stop Watches. | 6 |

(d) **GENERAL :**

| | |
|---|--------------|
| Physiograph, 3 channels, complete with accessories. | 1 |
| Physiograph, single channel, with accessories. | 6 |
| Centrifuge, High speed with technometer etc. | 1 |
| Calorimeter, Photo-electric | 1 |
| pH meter, electric | 1 |
| Refrigerator, 9-10c.ft. | 1 |
| Oxygen Cylinder with trolley | 6 |
| Co Cylinder with trolley | 2 |
| Electronic stimulator | 1 |
| Water distillation still, with spare heating elements | 1 |
| All glass distillation apparatus double stag. | 1 |
| Voltage stabilizer | 3 |
| Stepdown transformers | 1 |
| Thermometers, balances, microslides and glass ware | As required. |

3) DEPARTMENT OF BIOCHEMISTRY:-

| | |
|---|------|
| Boiling Water baths, with lids having 8-12 holes | 6 |
| Autoclave electric | 2 |
| Balance Semi micro | 2 |
| Balance Micro | 1 |
| Vortex mixers | 2 |
| Urinometers | 50 |
| Constant Temperature water bath | 4 |
| Ryles tube | 4 |
| Incubator electric with thermostat | 4 |
| Hot air oven | 4 |
| Magnetic Stirrer | 2 |
| Pump vacuum | 2 |
| Colorimeters | 6 |
| Refrigerators | 4 |
| Flame Photometer | 2 |
| Thermometers 0-250 $^{\circ}$ C | 4 |
| Thermometers 0-110 $^{\circ}$ C | 4 |
| Cork borer set | 1 |
| Stop watch | 4 |
| Spirit lamp | 50 |
| Chromatographic chamber | 2 |
| Water distillation Plant (metallic) | 3 |
| All glass distillation apparatus | 3 |
| Dessicators large size | 6 |
| Dessicators small size | 6 |
| Centrifuge clinical for 12 tubes | 6 |
| pH Meters | 3 |
| Homogeniser | 3 |
| Microscopes | 6 |
| Ultra Violet (U.V.) lamp | 1 |
| Tools for small workshop for glass blowing and mending | 1set |
| Bottle dispensers | 15 |
| Samplers (autopipettes) different volume range | 15 |
| Electrophoresis apparatus with power supply for paper PAGE AGAROSE | 6 |
| Spectrophotometer | 1 |
| Binocular research microscopes | 2 |
| Glass ware as required by standard lab. Like pipettes, beakers and conical flasks, etc. as required | |
| Auto Analyser | 1 |
| Elisa Reader | 1 |
| Blood – Gas Analyser | 1 |

FOR II MBBS COURSE

4) DEPARTMENT OF PATHOLOGY:

a) General:- Office table small and big, office chairs; museum almirahs; study table, staff room and library almirahs, stock almirahs, store room racks, lockers with coat hangers and drawers as required. Laboratory benches with cupboards and rack for reagent bottles, water, gas and electric points, operation tables etc. as necessary.

b) Morbid Histology and Morbid Anatomy Sections

| | |
|---|-------------|
| Weighing machine for cadavers | 1 |
| Rotary Microtomes | 2 |
| Freezing Microtome with a stand for carbondioxide cylinder | 1 |
| Hot plates | 2 |
| Hot air (50 degree Celsius) for special staining | 2 |
| @ Paraffin embedding bath (ordinary) | 2 |
| @ Electric vacuum embedding baths | 2 |
| @ if Hissto Kinetite is not available. | |
| Autoclave electric | 2 |
| Distilled water still | 1 |
| Water bath 57 degree Celsius | 1 |
| Rectangular water bath | 1 |
| Centrigue machine Electric Rotofix | 1 |
| Colorimeter Photoelectric Klett. | 1 |
| Cabinet for 1000 slides | As required |
| Band saw | 1 |
| Autopsy tables | 2 |
| Automatic tissue processor , Histokinmettee or similar, complete. | 1 |
| Staining racks for staining in bulk | 10 |
| Troughs for staining in bulk | 12 |
| Coplin jars | 24 |
| Water bath electric (Tissue Floation) | 2 |
| Balance, chemical with weights | 2 |
| Microscopes, Monocular, with double nose piece, High power objective 2 eye-pieces, mechanical stage and condensor | 60 |
| Oil immersion lens for above. | 60 |
| Polarision attachments for microscopes | 1 |
| Micrometers, ocular | 1 |
| Demonstration eye pieces | 6 |
| Magnifying lens | 6 |
| Blood pressure Instrument | 2 |
| Micrometer stage | 2 |
| Hot plate electric | 2 |
| Laboratory Counter nine keys clay Adams | 6 |
| Laboratory stirrer | 1 |
| Automatic timer | 2 |
| Balance for weighing organs | 1 |
| Saws, wire for cutting bones | 1 |
| Slide boxes for 100 slides for students | 120 |
| Drill for boring glass | 2 |
| Blow piece with bellows for bending glass | 2 |
| Microphotographic apparatus | 1 |
| X-ray viewing box | 2 |
| Double Demonstration Eye piece | 2 |
| Microprojection apparatus | 2 |
| Sternal puncture needle Adult size | 2 |
| Sternal puncture needle child size | 2 |
| Liver Biopsy needle | 2 |
| Box weight analytical | 2 |
| Stop watch reading at 1/5 second. | 6 |
| Ultraviolet lamp | 1 |

| | |
|---|-------------|
| PH Meter electric | 1 |
| Microscope, Binocular, research | 1 |
| Paper Electrophoresis apparatus vertical. | 1 |
| Paper electrophoresis apparatus, horizontal | 1 |
| Water still electric | 1 |
| 2 x 2 slide Projector | 2 |
| Overhead projector | 1 |
| Museum Jars | As required |
| Drawing instruments and colours etc. for photo-artist | 1 set |
| Surgical instruments | 1 set |
| Dark room lamp, developing troughs | 1 set |
| Chemicals etc. for photo artist | |
| Glassware, stains and chemicals reagents etc. for Histological work | As required |

(c) Clinical Laboratory :-

| | |
|---|-------------|
| Microscope high power with oil immersion lense moveble stage and condensor for the routine microscope work. | 15 |
| Bottles Specific gravity 25 cc | 2 |
| Micro burretes 5 cc. | 2 |
| PH meter, with ultra micro blood PH electrodes and Electrical Centrifuge- One higher power centrifuge for serological works, one for Haematological work and one other. | 3 |
| Incubator | 1 |
| Haemacytometers with red and white pipettes | 60 |
| Haemoglobinometers, Sahili' type | 60 |
| Sedimentation apparatus – one wester green and one wintrobole. | 2 sets |
| Syringes disposable one set from 10 cc to 2 cc 30 of each | As required |
| Staining jars for slides. | 12 |
| Urinometers | 9 |
| Albuminometers, esbachs & Aufrech's type | 1 |
| Urine glass set (conical) | 12 |
| Water Baths with lids and holes thereon for holding test tubes etc. | 2 |
| Centrifuge tubes graduated | 36 |
| Crusible with china Lid. | 2 |
| Crusible Gooch with adapter | 2 |
| Graduated Cylinders of various Capacites ranging from 100 cc to 1000 cc. | 6 of each |
| Pipettes of various sizes, graduated sets. | As required |
| Reagent bottles | As required |
| Dropping bottles 4 ounce | As required |
| Reagents | As required |
| Balances – 1. Sensitive balance | 2 |
| 2. Chemical balance with weight boxes. | 2 |

5) DEPARTMENT OF MICROBIOLOGY:

| | |
|---|-----|
| Incubators, electrical (large) 37 degree Celsius | 4 |
| Autoclave | 3 |
| Hot air steriliser | 2 |
| Arnolds steriliser | 2 |
| Serum inspissators | 2 |
| Balance, Chemical | 2 |
| Lovibond comparators | 1 |
| Flasks flat bottom 50 cc. | 6 |
| Microscope oil-immersion moveable stage Abbe, condenser etc. | 55 |
| Microscope, dark ground work with arc lamp arrangement etc. | 1 |
| Refrigerators | 3 |
| Micrometer eye pieces | 2 |
| Micrometer stage | 2 |
| Centrifuge, electrical high power | 2 |
| Refrigerated centrifuge | 1 |
| Distilled water plant | 2 |
| Distilled water plant all glass | 1 |
| Oil immersion lens for students microscope. | 55 |
| Dropping bottles for stains (Plastic) | 500 |
| Staining troughs | 60 |
| Anaerobic apparatus | 3 |
| Electrophoresis complete set | 1 |
| B.O.D. incubator | 2 |
| Laminar flow table | 1 |
| Ultra Violet (U.V.) Lamps | 1 |
| Venereal Diseases Research Laboratory (V.D.R.L.) shaker | 2 |
| Computer unit | 1 |
| Overhead Projector | 1 |
| o | 1 |
| Water bath (Serological) 37 . C | |
| o | 1 |
| Water bath (Serological) 56 . C | |
| o | 1 |
| Deep freeze (-20. C) | |
| Elisa Reader, Dispenser and Washer | 1 |
| Binocular microscope | 2 |

Culture facilities :-

| | |
|---|-------------|
| Thermometers (Assorted) | 12 |
| Glass ware, such as pipettors burettes, beakers, conical flasks, petri dishes of different sizes, reagent bottles etc. | As required |
| Material for preparation of media. | As required |
| Stains | As required |
| PH Determination apparatus | 2 |
| Reagent bottles with stopper | |
| 2000 cc | 12 |
| 1000 cc | 36 |
| 500 cc | 24 |
| 250 cc | 24 |
| 100 cc | 60 |
| 50 cc | 60 |
| Test tubes hard glass | |
| 150 mm x 18 mm | 10 Gross |
| 100 mm x 12 mm | 20 Gross |
| 75 mm x 12 mm | 20 Gross |

6) DEPARTMENT OF PHARMACOLOGY :

Office tables small and big, office chairs, museum almirahs, study tables, staff room and library almirahs, stock almirahs, store room rack, lockers with coat hanger and drawers as required. Laboratory benches with cupboards with racks for reagent bottles, water, gas and electric points and operation tables, etc., as necessary.

EXPERIMENTAL PHARMACOLOGY:

| | |
|---|-------------|
| Starling's long extension kymographs with time markers. | 3 |
| The ideal respiration pump (500 cc.CAP) | 3 |
| Brodi's operation tables | 3 |
| Incubators | 2 |
| Refrigerators | 2 |
| Assembly perfusion apparatus for mammalian heart | 4 |
| Standard power tables | 3 |
| Assembly for mammalian classes | 4 |
| Automatic electric recording drums. | 4 |
| Mechanical stromhur | 2 |
| Gadum's out-flow recorder | 2 |
| Centrifuge | 2 |
| Colorimeters | 3 |
| Canulas (different types) | 48 |
| Cautery machine, electric Blendsone | 1 |
| Varnishing Tray with foot lever | 2 |
| Four Unit isolated organ bath palmer F.67 | 1 |
| Analgesiometer | 1 |
| Smoking Burners Palmer A-291 and A-265 | 1 |
| Tracheal Cunula Metal Palmer E.76 | 4 |
| Condons Drop Recorder –Palmer B.75 | 1 |
| Prof.inchleys Drop Record – Palmer B.78 | 1 |
| Animals weighing: | |
| a) Machine for small animals like rats and gunea pig. | 3 |
| b) Machine for big animals like dogs | 3 |
| Dissection instruments and injection syringes | |
| (The experimental physiology laboratory can be used if available for the students). | As required |
| *Kymograph (students) Electric independent unit | 100 |
| *Electric Motor ¼ with splic pulleys | 2 |
| *Shafting steel rod 3./4 “ diameter and 18” long | 8 |
| *Standard shafting and fittings | 40 |
| *Pulleys | 30 |
| *Muffs coupling for joining 2 pieces of the above mentioned shafting steel rods | 12 |
| *Not required in case of independent units. | |
| X-blocks | As required |
| Hook grip rods | As required |
| Plain Stand | 100 |
| Apparatus for isolated rabbit intestine etc. | 100 |
| Jacquets graphic chronometer | 2 |
| Frog Boards Palmer c.120 | 100 |
| Jackson's Enterograph | 3 |
| Hair Aesthesiometer – Palmer W.290 | 2 |
| Long Extension for paper palmer A-130 | 2 |
| Animal Balance Triple Beam | 2 |
| Manometers mercury palmer C-200 | 6 |
| Metronome palmer B-5 | 2 |
| Oncometer Kidney | 2 |
| Oncometer hear | 2 |
| Copper Trays (10” x 8” x 1”) | 100 |

| | |
|---|-------------|
| Thermometer (upto 110 degree Celsius) | 100 |
| Distillation apparatus | 4 |
| Microscopes ordinary | 4 |
| Working tables with racks each table 36' long | 6 |
| Chemical Balance – ordinary Apothecary's | 2 |
| Chemical Balance – Sensitive | 2 |
| Dissection instrument | As required |
| Plethysmograph assorted | 4 |
| Pneumograph Palmer E. | 1 |
| Piston Recorder Palmer C.51 | 1 |
| Tambours Mareys Palmer C.5 & c.11 | 4 |
| Teanus Set Palmer H2O | 1 |
| Stop Watches Jacquets | 12 |
| Oxygen Cylinders with Trolleys 20 cu.ft. | 4 |
| Carbondioxide Cylinder | 2 |
| Operating lamps – Philips | 4 |
| Animal Trolley with 12 cages | 4 |

Miscellaneous :-

| | |
|---|-------------|
| Electrodes, Ordinary and non polarisable, insulated wires, time markers, electric signals, Mercury manometer, perfusion apparatus, myograph lever, small pulley's upright stands and chemicals etc. | As required |
|---|-------------|

(C) Pharmacy Laboratory:-

| | |
|---|----|
| Dispensing Balance with metric system weights | 30 |
| Pill Tiles | 30 |
| Suppository moulds | 30 |
| Porcelain dishes | 10 |
| Crucibles with tongs | 10 |
| Pestle and Mortar | 30 |
| Iron Spatula | 30 |
| Measure glass all sizes | 30 |
| Water bath, metal | 10 |

Miscellaneous:-

| | |
|---|--------------|
| Chemicals, drugs, glass rods, funnels and filter paper etc. | As required. |
|---|--------------|

(D) SPECIAL CHEMICALS AND PHARMACOLOGICAL EQUIPMENT:-

| | |
|--|----|
| Stimulator Electronic Arthus Thomas | 1 |
| Balance Semi micro Analytical Plan Mottler | 1 |
| Electrocardiograph | 1 |
| Spectrophotometer Model Du-Backman (UV Visible range) | 1 |
| Skin and Rectal Thermometer Braun | 1 |
| Anihistamine Chamber with manometer | 1 |
| Flame photomer | 1 |
| Stop clock | 12 |
| Water Bath 4 hole Electrically heated | 12 |
| Bell Jars Assorted | 4 |
| Petri Dishes Assorted | 36 |
| Museum drugs specimen jars | 30 |
| All glass distillation apparatus cap. 2 liters | 2 |
| Centrifuge Electric International R.P.M. 3000 | 4 |
| Microscope students type with mechanical stage and oil immersion | 4 |
| Microscope lamps | 4 |
| Magnetic stirrer B.T.L. | 1 |
| Autoclave electric | 1 |

| | |
|--|-------------|
| Waring Blender M.S.E. | 1 |
| Hot air oven size 14" x 14" x 14" | 1 |
| Incubator Electric Size 14" x 14" x 14" | 1 |
| Vacuum & Pressure Pump Cenco | 2 |
| Instruments Steriliser Electric size 12" x 8" x 6" | 2 |
| B.P.Apparatus | 8 |
| Distilled water still Manesty Electrical Cap 2 gallon per hour | 2 |
| Stethoscope | 8 |
| Multimeter | 1 |
| o | 1 |
| Temperature controlled water bath 37 C. | |
| Razor Hone | 2 |
| Electric Hot Plate | 2 |
| Deionizer – two of capacity 20 liters per hour and 6 liters per hour (mixed bed type) Connected in series. | |
| Physiographs with transducers and other relevant accessories (may substitute kymographs) | 40 |
| Vortex mixer | 2 |
| Actophotometer | 1 |
| Rotarod Assembly | 1 |
| Electro-Convulsimeter | 1 |
| Cook's Pole Climbing Apparatus | 1 |
| Metabolic Cages (Diuretic Study) | 3-4 |
| Digital pH meter | 1 |
| Tablet Disintegration machine | 1 |
| Glass tubing (length of 6 ft.) | |
| Glass rods – assorted sizes of 6 ft. | 100 |
| Glass mortar & pestles } capacity of 500 and 200-CC | 24 each |
| Cork borer set of 12 | 1 set |
| Holder for platinum wireloop | 110 |
| Lancet spring (disposable) | 110 |
| Lamp for microscope | As required |
| Magnifying glass with metal handle. | 60 |
| Metal mincing machine | 1 |
| Postmortem instruments sets complete. | 2 set |
| Suction pumps | 1 |
| Filtering apparatus sietz filter and milipore filter- | 1 each |
| Dessicators | 2 |
| Vacuum Dessicator | 1 |
| Apron plastic for postmortem | 2 |
| Apron rubber for postmortem | 2 |
| *Lyophilizer | 1 |
| *Thermal cycler | 1 |
| * U.V.Transilluminator with photography | 1 |
| * Colony counter | 1 |
| *Cold room + degree Celsius | 1 |
| * BACTEC System | 1 |
| * Phase contrast Microscope | 1 |
| * Vortex mixer | 1 |
| * Electronic Balance | 1 |
| * Microfuge | 1 |
| * Ultra centrifuge | 1 |
| * Flourcescent Microscope | 1 |
| * Desirable additional equipment in the department of Microbiology. | 1 |

7) DEPARTMENT OF FORENSIC MEDICINE:-

| | |
|--|-------------|
| Weighing machine, dial type human | 2 |
| Equipment for reporting height | 2 |
| Balance chemical | 1 |
| Balance, single pair for weighing foetus | 1 |
| Weighing machine for Weighing dead bodies | 2 |
| Weighing machine for organs | 1 |
| Floding metal scale to measure upto 7 ft. | |
| Steel tape roll | 2 |
| Warnier calipers | 1 |
| Autopsy table | 2 |
| Styker autopsy saw, with accessories | 3 |
| Hacksaw | 4 |
| Dissection sets, consisting of cartilage knife, bone cutting forceps scissors, stright and curved Enterotome Scaples, knives with spare blades, probe metal scale graduated in cms. Etc. | 4 |
| Ribg.shears, right and left. | 4 |
| Viscerotome with attachment for illumination (Battery operated) | 1 |
| SLR Camera with accessories | 1 |
| Microscope student type | 25 |
| Microscope Binocular, research | 3 |
| Stopwatch | 2 |
| X-ray view box one if four | 4 |
| View Box Two in one | 3 |
| B.P. Apparatus | 4 |
| Anthropometric set | 1 |
| Automatic tissue processing machine | 1 |
| Microtome with knife | 1 |
| Hot plates | 1 |
| L.Modes | 16 |
| Leather Strops | 2 |
| Parafin Bath Embedding | 1 |
| Slide Warming Table | 1 |
| Stone Carbarandon | 2 |
| Water Bath (Tissue Flowing) | 1 |
| Distilation plant | 1 |
| Brain Knife | 8 |
| Block Holder | 50 |
| Digital Spectrometer | 1 |
| Digital PH Meter | 1 |
| Electric Auto Slide Projecter | 1 |
| Glass cutting Pencil | 1 |
| Hand Set Heat Sealer | 1 |
| Spectroscope Lens with adjustable slit | 2 |
| Refrigerator | 1 |
| Cold storage for keeping dead bodies | As required |
| Deep freezer for keeping tissues | As required |
| Video Camera, Television and Video Cassette Recorder. | 1 each |
| Instrument Cabinet, instrument, trolley, filing cabinet with folders, filing cabinets for almirah etc. | As required |

FOR FINAL MBBS

8) DEPARTMENT OF COMMUNITY MEDICINE:

| | |
|---|-------------|
| Comparator, Nessler | 1 |
| Barometer, Fotin | 1 |
| Extraction Apparatus, Fat, complete | 1 |
| Filter, Pasteur chamberland, complete set | 1 |
| Filter, Berkefeld | 1 |
| Hydrometres, spirit | 3 |
| Hydrometres, milk | 3 |
| Hydrometres, wet and dry BULB | 1 |
| Incubator, Electric | 1 |
| Museum jars | As required |
| Models, charts, diagrams etc. | As required |
| Balance Analytical 200 gm | 3 |
| Balance for weight food stuff | |
| Capacity 2 kg. | 1 |
| Centrifuge Clinical | 1 |
| Weighing machine adult | 4 |
| Salters Baby weighing machine | 4 |
| Harpers Callipers (for skin fold thickness) | 2 |
| Height measuring stand | 1 |
| Aqua guard | 1 |
| Refrigerator 9 cu.ft. | 1 |
| Ice Lined Refrigerator (ILR) | 1 |
| Dissecting microscope | 30 |
| Microscope oil immersion | 2 |
| T.V., V.C.R. | 1 each |
| Still for distilled water | 1 |
| Autoclave | 1 |
| Sterilizers, electric | 2 |
| Computer | 1 |
| Over Head Projector | 2 |

The rural and health centers for training of undergraduate students shall be suitably equipped along with adequate transport.

B. CLINICAL DEPARTMENTS:-

The list of equipment for clinical departments both indoor and outdoor, may be prepared by the Heads of departments, who would keep in view the needs for:-

- 1) Special examination with diagnostic aids and investigations such as laboratory, X-ray, etc.
- 2) Routine treatment, medical and surgical etc.
- 3) Special therapy such as physical, occupational, dietetic etc.

The following equipments for various clinical departments are however the minimum required.

1) DEPARTMENT OF MEDICINE:-

| | |
|--|-------------|
| B.P.Apparatus | 30 |
| Ophthalmoscope | 8 |
| Lumbar puncture needles (disposable) | As required |
| Haemocytometer | 4 |
| Light Microscope | 2 |
| Haemoglobinometer | 4 |
| Centrifuge Machine | 2 |
| Urinometer | 2 |
| Plural biopsy needle (disposable) | As required |
| Liver biopsy needle (disposable) | As required |
| Kidney Biopsy needle (disposable) | As required |
| X-ray viewing box | 20 |
| Overhead projector | 2 |
| Slide Projector | 2 |
| Upper GI endoscope | 2 |
| Colonoscope | 2 |
| Sigmoidoscope | 2 |
| Proctoscope | 8 |
| Facilities for doing tests for malabsorption | As required |
| Ultra sound machine | 1 |
| Fiberoptic bronchoscope | 2 |
| Spirometer | 1 |
| Bed side Cardiac monitors | 12 |
| Central Cardiac monitor console | 1 |
| Defibrillator | 12 |
| Non invasive B.P. Apparatus | 12 |
| Pulse oxymeter | 12 |
| Equipment for Cardiac pacing | 1 |
| Ambu bag | 12 |
| Laryngoscope | 12 |
| ECG Machine | 12 |
| Echocardiography machine | 2 |
| Tread Mill test machine | 1 |
| Haemodialysis machine | 4 |
| Peritoneal dialysis catheters | As required |
| Arterial blood gas analyzer | 2 |
| Na / K analyzer | 2 |
| Equipment for measuring diffusion capacity | 1 |
| Microprocessor based spectrometer | 2 |
| Gamma cameras | 1 |
| Glucometer | 8 |
| Radioisotope scan laboratory | 1 |
| Electro Encephalogram (EEG) Machine | 1 |
| EMC and nerve conduction velocity machine | 1 |
| Fine needle aspiration needle | As required |
| Aspiration needle | As required |
| Torches | 30 |
| Patient examination table | 30 |
| Rubber Hammer | 30 |
| Reagents for doing Gram's and Ziehl Neilson staining | As required |
| computer (one for each medical unit) | 4 |
| Radiopagers | 30 |
| Endotracheal tubes | As required |
| Emergency lights | 8 |

2) DEPARTMENT OF PAEDIATRICS:-

(A) **Resuscitation Equipments:-**

Ambu bag

| | |
|--------------------|-------------|
| - infant | 4 |
| -children | 4 |
| Face mask | 4 |
| Nasal prongs | As required |
| Nasal catheters | As required |
| Endotracheal tubes | As required |
| Suction apparatus | 1 |
| Suction catheters | As required |
| Laryngoscope | |
| -Infant | 1 |
| -Children | 1 |

(B) **Oxygen Delivery System :-**

| | |
|-------------------------------|---|
| Oxygen Cylinder | 1 |
| Oxygen regulator | 1 |
| Oxygen Humidifiers | 1 |
| Oxygen Headbox (or each size) | 1 |
| Nebulisers | 8 |

(C) **Drug Delivery Equipment / Catheter / Tube:**

| | |
|--|-------------|
| Intra-venous (I.V.) Drip set | As required |
| Measured volume set | 4 |
| Blood transfusion set | 4 |
| Intra-venous (I.V.) Canula (Butterfly type) | As required |
| Intracath | 8 |
| Umbilical vein Catheter | 8 |
| Feeding tubes | As required |
| Three way and four way value | 4 |
| Malecot's catheter | 8 |
| Cut open canula | As required |

(D) **Measurement Equipments:**

| | |
|-------------------|-------------|
| Weighting machine | |
| -Infant | 1 |
| -Child | 1 |
| -Neonates | 1 |
| Infantometer | 1 |
| Measuring Tape | As required |
| Shakir's Tape | As required |

(E) **Work lab and investigations :-**

| | |
|--------------------------------------|-------------|
| Student Microscope | 2 |
| Nuclear Chamber | 4 |
| Hemoglobinometer | 4 |
| Test tube | As required |
| Spirit lamp | 4 |
| Stains for – Leishman's staining | As required |
| -AFB Staining | As required |
| - Grams staining | As required |
| Dextrostix | As required |
| Multistix | As required |
| Uristix | As required |
| Micro Erythrocyte Sedimentation Rate | As required |

| | |
|--------------------------------|-------------|
| (ESR) tubes. | |
| Filter paper | As required |
| Bone marrow needle | 4 |
| Lumber Puncture (L.P.) Needles | 4 |
| Pleural aspiration needle | 4 |
| Vim-Silverman | 4 |
| Biopsy needle | |
| Mengneiz Needle | 4 |
| True cut Renal | 4 |
| Biopsy needle | |
| X-ray View box | 1 |

(F) **Miscellaneous:**

| | |
|-------------------|-------------|
| Radiant Warmer | 1 |
| Infant Incubator | 1 |
| Phototherapy unit | 1 |
| Ophthalmoscope | 1 |
| Thermometer-Oral | As required |
| - Rectal | As required |

3) DEPARTMENT OF TUBERCULOSIS AND CHEST DISEASES:-

| | |
|---|---|
| Peak flow meters | 2 |
| Nebulizers | 4 |
| Intercostal Drainage Facility | 3 |
| Pleural Biopsy Needles | 2 |
| Pulse Oximeter | 1 |
| Fiberoptic Bronchoscope | 1 |
| Rigid Bronchoscope | 1 |
| Pulmonary function Test machine with facility for Spirometry, lung volume and diffusion capacity. | 1 |
| Arterial Blood Gas machine. | 1 |

4) DEPARTMENT OF DERMATOLOGY- VENEREOLOGY AND LEPROSY:

Facilities for examining smears for bacteria, fungi, mycobacteria and acantholytic cells.

- a) Light microscope with facility for dark ground illumination microscopy.
- b) Gram's stain
- c) Zeihl-Neelsen's stain
- d) Giemsa stain

Facilities for electrosurgery and chemosurgery

- a) Electro- cautery machine
- b) Trichloroacetic acid.

5) DEPARTMENT OF PSYCHIATRY :

| | |
|--|---|
| E.C.T.Machine preferably with Electro Convulsive Therapy (ECT) monitoring | 2 |
| Electro Cardio Graph machine | 1 |
| EEG machine | 1 |
| Lithium analyzer | 1 |
| Biofeed-back Instruments (sets) | 1 |
| Thin layer Chromatography (for drug dependence treatment) | 1 |
| Alcohol breath analyzer | 1 |
| Psychological Tests equipment | |
| a) Project Tests | 3 |
| b) Intelligence Tests | 3 |
| c) Personality Tests | 3 |
| d) Neuro Psychological tests | 3 |

6) DEPARTMENT OF SURGERY:

i) O.P.D.

| | |
|---|---|
| Blood Pressure Apparatus, Stethoscope, diagnostic kit, weighing machine, Skinfold Caliper, Height scale. | 6 |
| X-ray viewing box 4 in 1 | 6 |
| Proctoscope & Gabriel Syringe | 6 |
| Sigmoidoscope (Rigid) | 2 |
| Flexible Endoscope, Upper GI, Colonoscope (one set in Main O.T.) | 2 |
| Diagnostic Cystoscope | 1 |
| Ultrasound | 1 |
| Uroflowmetry | 1 |

ii) MINOR Operation Theatre:-

| | |
|---|-------|
| Operation Theatre Table | 2 |
| Operation Theatre Ceiling light | 2 |
| Pedestal lights | 4 |
| Electro-surgical unit | 1 |
| Suction | 4 |
| Pulse oximeter (one for Endoscopy Room) | 4 |
| Anaesthesia equipment | 1 set |
| Resuscitation kit | 1 |
| Assorted Surgical Instruments | 12 |
| For minor operation sets | |
| Autocall. | 1 |

WARDS:-

| | |
|---|---------|
| B.P.Apparatus, Stethoscope, diagnostic kit (4 sets in each ward) | 16 sets |
| Weighing machine, height scale, skinfold Caliper (2 each in each ward) | 8 |
| Proctoscope (2 in each ward) | 8 |
| Monitors for pulse Rate, Heart Rate, E.C.G. Invasive and Non-invasive pressure. (2 in each ward) | 8 |
| Incubators / Transport Incubators | 4 |
| Neonatal Bassinet | 4 |
| Ultrasound | 1 |
| Arterial Blood Analyser | 1 |
| Oesophageal / gastric PH & pressure recorder | 1 |

iii) OPERATION THEATRE:-

| | |
|---|--------|
| Operating Tables | 8 |
| Operating Ceiling light | 8 |
| Pedestal side light (for emergency use) | 4 |
| Electrosurgical unit | |
| General sets (8 for each Operation Theatre) | 10 |
| Burr hole set | 64 |
| Vascular set (1 in each O.T.) | 2 |
| Anaesthesia Equipment as per requirement of Anesthesia department. | 8 |
| Diagnostic and operative laproscope | 2 |
| Cystoscope and Resectoscope | 2 |
| Bronchoscope | 1 |
| Flexible Gastro Intestinal Endoscope | 1 |
| Laser (May be shared with other departments) | 1 |
| C-arm image intensifier | 1 |
| Operating microscope – binocular with video monitor | 1 |
| Operative ultrasound | 1 |
| Stapling device Assorted | 2 sets |
| Endo-stapler | 1 set |
| Closed Circuit T.V. | 2 |

iv) MISCELLANEOUS:-

| | |
|---|---|
| Photocopier | 1 |
| Computer with laser Printer | 1 |
| Electronic Typewriters | 2 |
| Slide-Projector | 4 |
| Overhead projector | 6 |
| Video Cassette Recorder / Video Cassette Player | 2 |

7) DEPARTMENT OF PAEDIATRIC SURGERY:

| | |
|----------------------------------|---------|
| Resuscitation equipment | |
| -Ambubags | 4 |
| -ET Tubes (all sizes 2.5 – 8) | 8 sets |
| - Guedell's airway (all sizes) | 4 sets |
| -Laryngoscope | 4 |
| Suction Catheters assorted sizes | 20 sets |
| Suction machines | 4 |
| Oxygen cylinders Oxygen | 8 |
| BP Appartus | 8 |
| Slow suction machine | 3 |
| Nebulizer | 3 |
| Heater | 3 |
| I.C.U. Equipment incubator | 3 sets |
| Operation Theatre equipment | 2 |
| Cystoscope – Paediatrics | 2 |
| Rigid Bronchoscope (sets) | 2 |
| Oesophageal dilators (sets) | 2 |
| Paediatrics sigmoidoscope | 2 |

8) DEPARTMENT OF OPTHOPAEDICS:-

| | |
|---|--------|
| Basic Instrumentation set for fracture. | 5 sets |
| Small Fragment and large fragment | 3 |
| External Fixator | 86 |
| C-Arm (Image Internsifier) | 2 |
| Portable X-ray Machine | 1 |
| Arthroscope | 1 |
| Slide Projector | 2 |

| | |
|--|---|
| Over-head projector | 2 |
| Movie camera for demonstration of live operations. | 1 |
| Plaster room equipment (sets) with plastic table. | 2 |
| Physiotherapy and occupational Therapy equipment sets. | 1 |
| Operation room equipment (sets) | 2 |

9) DEPARTMENT OF OPHTHALMOLOGY:-

a) Out Patient Department:-

| | |
|---|---|
| Snellen Chart / Snellen drum with or without remote control | 4 |
| Trial set with trial frame both for adult and children | 4 |
| Bjerrum Screen | 2 |
| Perimeter | 2 |
| Colour vision chart | 3 |
| Near vision chart with different language | 4 |
| 3 cell torch | 9 |
| Ophthalmoscope and Retinoscope | 4 |
| Common equipments in the OPD. | |
| Slit lamp | 2 |
| Applanation tonometer | 1 |
| Keratometer | 1 |
| Indirect Ophthalmoscope | 2 |
| Synoptophore | 1 |
| Maddox Rod | 1 |
| Maddox Wing | 1 |
| Dipl;oma goggles | 1 |
| Gonioscope | 1 |
| Placido disc. | 1 |
| Prism Bar | 1 |
| Schoutz tonometer | 3 |

ii) MAJOR Operation Theatre:

| | |
|---|---|
| Operating microscope with TV unit with camera | 2 |
| Cryo unit | 2 |
| Cataract set | 7 |
| Glaucoma set | 2 |
| DCR Set | 2 |
| Entropian set | 2 |
| Enucleation set | 2 |
| Evisceration set | 2 |
| Squint set | 2 |

iii) GENERAL OPHTHALMIC EQUIPMENTS

| | |
|-------------------------|---|
| Operation Theatre Table | 2 |
| Operation Theatre Light | 2 |

iv) MINOR Operation Theatre:- Minor O.T. Should have the equipment for the removal of the foreign body, sutures, and chalazion or sty.

v) WARD

| | |
|--|---|
| Slit lamp | 1 |
| *Snellen Chart / Snellen drum with or without remote control | 1 |
| Trial set with trial frame both for adult and childred | 1 |
| Bjerrum screen | 1 |
| Perimeter | 1 |
| Colour vision chart | 1 |
| Near vision chart with different language | 4 |
| 3 cell torch | 4 |
| Ophthalmoscope and Retinoscope | 1 |

10) DEPARTMENT OF ENT:

a) Out Patient Department:- (per doctor)

| | |
|-----------------------|---|
| Nasal speculum | 4 |
| Tongue depressor | 4 |
| Laryngeal mirros | 4 |
| Nasopharyngeal mirros | 4 |
| Aural speculum | 4 |
| Ear suction | 2 |
| Nasal suction | 2 |
| Suction apparatus | 1 |
| Siegles speculum | 1 |
| Tuning fork (512 Hz) | 1 |
| Otoscope | 2 |
| Bayonet forceps | 1 |
| Bulls lamp | 1 |
| Head lamp | 1 |
| ENT Examination chair | 2 |
| Jobson Horne probe | 1 |
| Sterilizer | 1 |
| BP Apparatus | 1 |
| Stethoscope | 1 |

b) MAJOR Operation Theatre:

| | |
|---|---|
| a) Tonsillectomy and adenoidectomy set Biopod | 1 |
| Boyle-Davis mouth gag | 1 |
| Tonsil holding forceps | 1 |
| Tonsil dissector and pillar retractor | 1 |
| Tonsil snare | 1 |
| Burkit artery forceps | 1 |
| Negus artery forceps | 1 |
| Negus know tier | 1 |
| Tonsil scissors | 1 |
| Adenotome | 1 |
| Adenoid curette | 1 |
| Yankauer oropharyngeal suction tip | 1 |
| b) Set for nasal bone fracture | |
| Asch forceps | 1 |
| Walsham forceps | 1 |
| c) Septoplasty set | |
| Bayonet forceps | 1 |
| Killians nasal speculum | 1 |
| Freer elevator | 1 |
| Ballenger's swivel knife | 1 |
| Takahashi forceps | 1 |
| Fish tail gouge and mallet | 1 |
| d) Caldwell luc set | |
| Nasal gouge | 1 |
| Mallet | 1 |
| Robbon Retractor | 2 |
| Cheek Rectractor | 2 |
| e) Antrostomy set | |
| Antral | 1 |
| Retrograde gouge | 1 |
| Antral rasp | 1 |
| f) *FEES Set | |
| *Rigid nasal endoscope 0 | 1 |
| * Rigid nasal endoscope 70 | 1 |
| * Light source | 1 |
| * Sickle knife | 1 |
| * Retrograde punch | 1 |
| * Blakesley forceps – straight | 1 |
| -40 upturn | 1 |

| | |
|--|------|
| - Optional for MBBS | |
| g) Direct laryngoscopy set | |
| Anterior commissure | 1 |
| Laryngoscope | 1 |
| Negus laryngoscope | 1 |
| Lighting system for Laryngoscopes | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Laryngeal suction | 1 |
| h) *Microlaryngoscopy set | |
| *Kleinsasser's Laryngoscope | 1 |
| *Fibrotic lighting system | 1 |
| *Suspension system for Laryngoscope | 1 |
| * Microlaryngeal cup forceps | 1 |
| * Microlaryngeal scissors | 1 |
| i) *Tympanoplasty set | |
| * Arural speculum | 4 |
| *Drum curette | 2 |
| *Drum elevator | 1 |
| * Microsuction | 2 |
| *Graft knife | 1 |
| * Graft press | 1 |
| j) *Mastoidectomy set | |
| *Mallet. | 1 |
| *Gouge | 4 |
| *Endaural retractor / post aural retractor | 2 |
| *Electric drill (Motor, Handpiece and burrs) | 1 |
| *Mastoid seeker | 1 |
| *Aditus seeker | 1 |
| *Malleus head nipper | 1 |
| k) *Stapedectomy set | |
| *Pick-straight | 1 |
| Angled | 1 |
| *perforator | 1 |
| * Measuring rod | 1 |
| *Prosthesis crimper | 1 |
| l) *Oesophagoscopy set | |
| Oesophagoscopes | 3 |
| Lighting | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Suction | 1 |
| Oesophageal dilators | 1set |
| m) *Bronchoscopy set | |
| * Bronchoscopes | 3 |
| *Lighting system | 1 |
| *Biopsy forceps | 1 |
| *foreign body removal forceps | 1 |
| *Suction | 1 |
| *Optional for MBBS | |
| n) Tracheostomy set | |
| Needle holder | 1 |
| Bard Parker knife handle | 1 |
| Robson right angled retractors | 2 |
| Curved arteries | 4 |
| Straight arteries | 1 |
| Cricoid hook | 1 |
| Tracheal dilator | 1 |

iii) MINOR Operation Theatre:-

| | |
|------------------------------------|-------------|
| a) Antral wash set | |
| Tracar | 2 |
| Canula | 2 |
| Higginsons syringe | 2 |
| b) Direct laryngoscope set | |
| Laryngoscope – Anterior commissure | 1 |
| -Negus | 1 |
| Lighting system | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Sterilizer | As required |
| Aural syringe | As required |
| Tracheostomy set | As required |
| Intubation set | As required |
| Cricothyrotomy set | As required |
| Quinsy forceps | As required |
| Laryngeal forceps | As required |
| Aural snare | As required |
| Aural cup forceps | As required |

iv) *WARDS:

| | |
|------------------------------------|-------------|
| *semi Intensive Care Unit (4 beds) | As required |
| *Central suction | As required |
| *Oxygen | As required |
| *Humidifier | As required |
| *Optional for MBBS | |

v) MISCELLANEOUS EQUIPMENTS:-

| | |
|-------------------------------------|-------------|
| Operating microscope for major O.T. | 1 |
| For minor O.T. | 1 |
| Puretone audiometer | As required |
| Impedance audiometer | As required |

SPECIAL EQUIPMENT:-

| | |
|----------------------------------|---|
| *a) Temporal bone lab Microscope | |
| *b) Drill | 1 |
| Mastoid set | 1 |
| *Optional for MBBS | |

vi) ANY OTHER ADDITIONAL EQUIPMENT WHICH ARE DESIREABLE:-

| | |
|---|-------|
| Flexible nasopharyngolaryngoscope | 1 |
| Electronystagmograph | 1 |
| Brainstem evoked response audiometer | 1 |
| Goggles, plastic apron, gloves for examination of patients with biohazard (HIV and Au positive) | 1 set |

11) DEPARTMENT OF OBSTETRICS & GYNAECOLOGY:

1) General:

| | |
|---|----|
| Speculums and Retractors | 50 |
| EA+ECC Sets | 20 |
| PCT forceps | 10 |
| Ayers spatula | 30 |
| Cytology bottle | 30 |
| Microscope | 2 |
| MR Syringes | 10 |
| Coloposcope | 2 |
| Crye / electro cautery apparatus | 2 |
| Simple fetal Doppler | 2 |
| NST machine | 4 |
| Stitch removal sets | 10 |
| Dressing sets | 10 |
| Ultrasound machine | 2 |
| Proctoscope | 6 |
| Weighing machine | 2 |
| Height scale | 2 |
| View box (BP apparatus, measuring tapes, gloves, syringes, needles, torch) | 2 |
| Resuscitation try (Laryngoscope, ET tube, ambu bag, suction catheter, essential drugs). | 2 |
| Suction machine | 2 |
| Hysterosalphigogram Canula | 8 |

2) MAIN Operation Theatre.

| | |
|--|---|
| Abdominal Hysterectomy set (arteries, scissors, scalpel, Allis's kelly's clamp, Babcock forceps, thumb forceps, Harington & Richardson retractors.) | 6 |
| Vaginal Hysterectomy set (Scalpel, sissors, metal catheter, Sim's, Speculum, Volsellum, kelly's clamps, right angle retractor, arteries, Allis, uterine sound, bladder sound). | 6 |
| Tuboplasty set | 4 |
| Myomectomy instruments (myoma screw, Boney's clamp) | 2 |
| Diagnostic laparoscopy set | 4 |
| Operating taparoscopy set | 4 |
| Hystroscopy set | 2 |
| Electronic Co2 insuffactor / insufflator basic unit | 4 |
| Resctoscope | 2 |
| Hysteromat | 2 |
| Operating microscope / Loupe | 2 |
| Electrocautery | 3 |

3) SPECIAL EQUIPMENT

| | |
|--------------------------|---|
| Contact microhystroscope | 1 |
| Co2 and Nd Yag laser | 1 |

4) LABOUR ROOM

| | |
|------------------------|----|
| Delivery sets | 20 |
| B.P.Apparatus | 6 |
| Weighing machine | 2 |
| Fetal Doppler | 2 |
| Cardiotocogram machine | 5 |
| Portable ultrasound | 2 |
| High suction machine | 2 |
| Resuscitation tray | 2 |

5) SPECIAL EQUIPMENT

| | |
|---|---|
| Oxytocin infusion pumps | 6 |
| Multichannel monitors | 4 |
| Intrauterine Pressure monitoring system | 4 |
| *Fetal scalp electrodes Facilities for fetal scalp pH | 3 |

6) TEACHING SET

| | |
|-----------------------------------|---|
| Doll and Dummy | 2 |
| Female Pelvis | 2 |
| Gross specimens | |
| x-ray / Ultra Sound films | 2 |
| View box | 2 |
| Video Cassette Recorder | 1 |
| Overhead Projector | 2 |
| Slide Projector | |
| Set of instruments / forceps etc. | |

7) MISCELLANEOUS

| | |
|--|--|
| Camera with 200 m lens | |
| Endocamera / Television | |
| TTL flash light | |
| Carbondioxide Monitor | |
| Caculter channelizer | |
| *Disposables, to be issued on monthly basis. | |

8) MINOR Operation Theatre

| | |
|---|----|
| Cervical biopsy set | 8 |
| MTP Set | 10 |
| D&C Set | 10 |
| Hydrotubation set | 4 |
| IUCD Insertion / removal set | 15 |
| High suction machine | 3 |
| Resuscitation Tray | 1 |
| E.B.Set (Operation Theatre lights, OT Tables) | 10 |

9) MATERNITY Operation Theatre.

| | |
|--|----|
| Set for LSCS | 10 |
| D and C set | 10 |
| MTP Set | 10 |
| High suction machine | 4 |
| Cervical exploration set | 4 |
| Uterine packing forceps | 4 |
| Abdominal hysterectomy set | 2 |
| Diagnostic laparoscopy set | 4 |
| Laprocator for tubal ligation | 4 |
| Post partum ligation set | 4 |
| Outlet forceps | 6 |
| Low mid cavity forceps / kjielland forceps | 6 |
| Vacuum Extractor and suction machine | 4 |
| Resuscitation tray | 2 |
| Decapitation hook | 2 |
| Cranioclast with cephalotribe | 2 |
| Oldham Perforator | 1 |
| Infusion Pump | 6 |
| EB Set | 6 |

Operation Theatre table, Operation Theatre lights, Central Oxygen and suction.

| | |
|---|----|
| 10) SPECIAL EQUIPMENT | |
| Multichannel monitor with ECG, BP, HR, Pulse | 2 |
| Oxymetry for high risk pregnant patients (eclampsia, heart diseases etc.) | |
| 11) WARDS | |
| B.P.Apparatus | 6 |
| Weighing machine | 1 |
| Height scale | 1 |
| Speculum and retractors | 60 |
| Glucometer | 2 |
| Microscope | 2 |
| Suture removal sets | 10 |
| Dressing sets | 15 |
| Ultrasound | 2 |
| Cutdown sets | 2 |
| Blood gas analyzer | 1 |
| CTG Machine | 2 |
| Suction machine | 3 |
| Resuscitation tray | 3 |
| View box | 2 |
| Central O2 and suction | |
| 12) SPECIAL EQUIPMENT | |
| Ultrasound machine with Doppler / vaginal probe / facilities for interventional procedure | 1 |
| Multichannel Monitor | 1 |
| Fetal Monitor for Antepartum Surveillance | 3 |
| Comoputer for data entry (Gloves, Syringes, needles, torch, measuring tape etc.) | 1 |
| 13) LAB EQUIPMENT FOR FOLLOWING INVESTIGATIONS: | |
| H.gram | |
| Urine examination | |
| Semen analyses | |
| Renal Function Test (RFT), Liver Function Test (LFT), Including Serum Blutamse Test (SBT) | |
| Electrolytes, Blood sugar | |
| Culture facilities | |
| 24 hr urine alb. Creatinine | |
| VDRL TORCH | |
| HIV | |
| Serum, BHCG, estriol, MSAFP | |
| Semen wash | |
| FSH, LH Prolactin, T3, T4, TSH, Testosterone, DHEAS | |
| Chlamydial and other reproductive tract infection testing | |
| GENETIC LAB – Cytology, Chromosome study, PCR for various | |
| abnormalities, facilities for biochemical tests and enzyme studies for prenatal diagnosis. | |
| Blood gas analyzer. | |
| Thalassemia study. | |
| ABO and Rh typing. | |
| PCR for tuberculosis | |
| Viral markers for Hepatitic studies. | |
| Coagulation profile, fibrinogen degradation Products. | |
| Blood Bank facilities | |
| Cryopreservation. | |
| Assisted reproductive techniques. | |

12) DEPARTMENT OF ANAESTHESIOLOGY:

| | |
|---|---|
| OPD – Anaesthesia Clinic | |
| Blood Pressure Instrument (Non-invasive) | 1 |
| Weighing Machine | 1 |
| Height Scale | 1 |
| Ward (Recovery) | |
| Resuscitation equipments (CPR) | |
| a) Adult Dummy | 1 |
| b) Paediatric dummy | 1 |
| c) Artificial breathing bag with face Masks | 1 |
| d) Defibrillator | 1 |
| Suction Machine | |
| - Electrical | 5 |
| - Manual | 5 |
| Oxygen therapy unit | 4 |
| Pulse Oximeter | 2 |
| E.C.G. Monitor | 2 |
| E.T.Co2 Monitor | 1 |
| Simple anaesthesia machine with resuscitation equipments and accessories, | 1 |
| Mechanical Ventilator | 2 |

13) DEPARTMENT OF RADIO-DIAGOSIS:

| | |
|---|---|
| Conventional X-ray Unit for routine X-ray and IVV. | 3 |
| Mobile X-ray and IVV. | |
| a) 30 MA | |
| b) 60 MA | 3 |
| | 3 |
| Fluroscopic unit | 1 |
| Both conventional and image intensifying unit for gastro-enterology and gynae work etc. | 2 |
| Ultrasonography equipment | 2+1 additional unit independently for Obstetrics and Gynaecology. |
| CT | 1 |
| Mammography (preferably) | |
| MRI (Preferably) | |

OPTIONAL DEPARTMENTS:

14) RADIO-THERAPY:

| | |
|---|---|
| Examination table | 3 |
| ENT Examination set up | 2 |
| Gynae. / Pelvic examination tables | 2 |
| Treatment planning and mould room including | |
| i) Computerised treatment Planning System | 1 |
| ii) Simulator | 1 |
| iii) Immobilization cast making system | 1 |
| Brachytherapy setup | |
| i) Manual afterloading intercavitary system (sets) | 2 |
| ii) Manual afterloading interstitial / surgace mould system (sets) | 1 |
| Teletherapy set-up | |
| Isocentrically mounted rotational telecobalt unit minimum 80 cm SSD | 1 |
| Radiation Protection and Dosimetry set-up | |
| i) Secondary standard dosimeter with ionization chamber | 1 |
| ii) Survey meter | 1 |
| iii) Area / Zone monitors | 3 |
| iv) Film Badge services (by BARC) | As per the number of staff members in the department. |

Desirable set up of equipments for large medical colleges (more than 3000 new cancer cases)

Radiotherapy department:

| | |
|---|---|
| i) Dual Photon energy linear accelerator with electrons and multileaf collimeter | 1 |
| ii) Remote controlled intracavitary system | 1 |
| iii) Remote controlled interstitial system | 1 |
| iv) CT-Sim 3D treatment planning system | 1 |
| v) Isodose plotte (Automatic) | 1 |
| vi) Customised shielding block making system | 1 |
| vii) Customised compensator making system | 1 |
| viii) Computerised Dosimetry system | 1 |
| ix) Thermoluminiscent dosimetry system | 1 |
| x) Intra operative Radiotherapy and stereotactic radiotherapy set up alongwith linear accelerator (multileaf) | 1 |

N.B.:- Normally one teletherapy unit should be provided for every 1000 new cancer cases. All radiation therapy equipments (tele / branchy) should be BARC type approved with BARC Sanctioned layout / installation plan.

15) PHYSICAL MEDICINE AND REHABILITATION:

1. Rehabilitation Diagnosis and treatment equipments including exercise set ups.
2. Remedial and recreational set up.
3. Electrotherapy equipments.
4. Prosthetic – Orthotic Workshop equipments.

C. OTHER DEPARTMENTS**I) MEDICAL EDUCATION UNIT:**

| | |
|-------------------------|-------------|
| Overhead Projectors | 2 |
| Slide Projectors | 2 |
| Computer with Printer | 1 |
| Electronic Typewriter | 1 |
| Video Camera | 1 |
| Video Cassette Recorder | 1 |
| Television | 1 |
| Blackboard | 2 |
| Zerox Copier | 1 |
| Books and Journals | As required |

2) DEPARTMENT OF AUDIO VISUAL AIDS ARTIST SECTION:

| | |
|--|--------------|
| Drawing Board Size 42 “ x 27” | 1 |
| Drawing Board size 22” x 30” | 1 |
| Instrument Box steadler | 1 |
| Plastic Transparent Set Square 10” | 1 pair |
| Plastic scale Transparent 18” | 1 |
| Parallel Ruler 18” | 1 |
| Proportional Compass. | 1 |
| Bowpen “Stanley” one for fine and one for thick line | 2 |
| “T” scale 24” Wooden | 1 |
| “T” scale 48” wooden | 1 |
| Frenat curves Plastic 1 set of 12 | 1 set |
| Protractor Plastic Semiround 6” dia. | 1 |
| Kent paper size 22” x 30” | 12 |
| Scolor drawing paper 22 “ x 30” | 12 |
| Drawing paper Norway 72 lbs. | 12 |
| Water colour tubes “Winsor and Newton” | 24 |
| Postercolours in differenct shades | 13 |
| Reeves Indian Black ink | 12 |
| Water colour box “Peliken” | 1 |
| Sable Hari Brushes 16 series No.00 to 6 and 10 | 8 |
| Spped ball nibs style A.B.C.& D. | 1 set |
| Crequil Nibs. | 12 |
| Drawing Nibs 303 and 304 | 12 |
| Clip holders. | 6 |
| Computer facilities | As required. |

3) MODELLING SECTIONS AND PHOTOGRAPHY

| | |
|---|-------------|
| Modelling instrument box | 1 |
| Saw for wood work | 1 |
| Bent saw Iron | 1 |
| Jamboor | 1 |
| Plier | 1 |
| Plier Goldsmith | 1 |
| Scissors ordinary | 1 |
| Scissors Goldsmith | 1 |
| Hammer | 1 |
| Mortar Iron | 1 |
| Bucket Iron | 1 |
| Chisel. | 1 |
| Tagari Iron | 1 |
| E.I. Bowls | 4 |
| Drill Machine | 1 |
| Modelling clay. | As required |
| Chalk clay | As required |
| Multani clay | As required |
| Yellor clay. | As required |
| Soft stone powder | As required |
| Plaster of paris | As required |
| Old raddy | As required |
| Gum | As required |
| Sand paper | As required |
| Plasticine | As required |
| Wires G.I. Copper and wire netting. | As required |
| Synthetic Enamel colours | As required |
| 1/16 gallon | |
| Oil colour brushes | As required |
| Soap and coconut oil | As required |
| Epidiascope B & L or Alatis. | 4 |
| Radiant Screen Size 72" x 72" | 2 |
| 16 mm. Film projector bell and Howell | 1 |
| Camera Rollielflex automatic | 1 |
| Camera 35 mm. Contax 4/D with copying attachment. | 1 |
| Microscopic attachment of Contax. | 1 |
| Micro projector Zeiss or B& L. | 1 |
| Enlarger Omega D 2. | 1 |
| Dark room and developing equipment | 1 set |
| 35 mm. Slide projector | |
| Viewlex. | 2 |

4) WORKSHOP AND ELECTRIC SECTION:

| | |
|---|---|
| Lathe machine 6" cenre height 10" automatic gear change box (heavy duty) with gapped. | 1 |
| Lathe Machine small 3" center height 8" automatic gear change box. German make. | 1 |
| Milling machine type with dividing head attachment | 1 |
| Stand Drill Machine electric | 1 |
| Shaping machine Bench model | 1 |
| Spraying painting composer max pressure 140 lbs. & continous pressure must be 30 lbs. Complete with spray gun and pressure rubber tube. | 1 |
| Electric welding machine max amperae 200 amp. With accessories electrode, holder, shade and earthing slip and extension wire. | 1 |
| Aceytlene welding with oxpacelylene bottle and complete set of troch. | 1 |
| Avo's multimeter English make. | 1 |
| Electric soldering Henleys 250 watts, 60 watts, with two nose-one fine and one broad | 1 |
| Electric blower | 1 |
| Frequency generator | 1 |
| Ampere meter | 1 |
| Battery charger | 1 |

| | |
|--|-------|
| Electroplating unit outfit | 1 |
| Carpenters section Instrument and appliances including electric saw and sander | 1 set |
| Glass blowing appliance | 1 |

**MINIMUM STANDARD REQUIREMENTS FOR MEDICAL UNDERGRADUATE
TRAINING IN THE DEPARTMENTS IN 150 ADMISSIONS.
EQUIPMENT (FOR VARIOUS DEPARTMENTS)**

ANATOMY

| NAME OF THE ARTICLE | QUANTITY REQUIRED FOR 150 ADMISSIONS. |
|---|---|
| Table with marble tops or stainless steel 6' 1" x 2' x 3' | 20 |
| Tables with marble tops or stainless steel, Half standard size. | 5 |
| Drill machine | 3 |
| Hand saw | 4 |
| Band saw for sectioning body and limbs | 1 |
| Stools, preferably metal | 90 |
| Brain knife | 5 |
| Mortuary cooler with arrangement to keep at least 8 bodies or suitable alternative arrangement. | ½ |
| Storage tank to hold 10 cadavers, made of concrete with copper lid. | 1 |
| Plastic tanks for storing soft and dissected prts. | 10 |
| Trolley Table (Steel, Light) | 3 |
| Projectors including overhead projectors | 2+2 |
| X-ray viewing lobby. | 4 |
| Charts, Diagrams, Models, Slides etc. | As required |
| Dissecting instruments | As required |
| Meat cutting machine for thin body sections (trans and vertical) for gross anatomy sectional study. | 1 |

APPARATUS AND INSTRUMENTS FOR HISTOLOGY:

| | |
|---|----|
| Microscopes, Monocular | 90 |
| Dissection Microscope | 5 |
| Microtomes, rotary | 2 |
| Microtomes, Sledge, Large cutting | 1 |
| Cabinet for slides (1000) | 6 |
| Incubator | 1 |
| Paraffin embedding bath | 1 |
| Hot plates for flattening sections | 2 |
| o | |
| Hot air cover for drying slides (45 . C) | 1 |
| Balance Analytical capacity 200 gms. And Sensitivity 1/10 mg. | 1 |
| Balance Earanger capacity 6 kilos Sensitivity, 1/5 grams. | 2 |
| Refrigerators | 2 |
| Distilled water still-menesty type capacity gallon per hour | 2 |
| Diamong pencils | 4 |
| 7 Colours marking pencils | 2 |

ANATOMY MUSEUM :

| | |
|--|-------------|
| Skeletons articulated | 7 |
| Bones (Dis-articulated) sets | 30 |
| Specimen jars | As required |
| Racks steel | As required |
| Embalming machines for cadavers | 2 |
| Computer for keeping student records, marks, stores etc. | |

PHYSIOLOGY

a) Office table, small and big, office chairs, museum almirahs, study table, staff room and library almirahs, stock almirahs, store room racks, laboratory benches with cupboards and racks for reagent set up for experimental physiology including Sherrington Starling Kymograph (preferably electrically driven) Myograph stand, inductorium, simple key short circulating key, pohl's commutator, vibrating interrupter, Muscle through, Muscle liver, Muscle grip of femur clamp, Hook and weight set, heart liver, frog board for dissection, enamel tray for above, frog board cork-lined with boss-head-36 sets + 6 spares.

Low voltage units, for tapping 2 and 4 volts for stimulation, at each seat – as required.

NOTE:-

1. Time markers can also be made available at each seat alongwith the low voltage unit.
2. Electronic stimulators, students type can be used instead of low voltage units Nife cells. This will also dispense with the need for induction coil interrupter, Transister ones are preferred.

| | |
|--|--------------|
| Electric time markers, 100 / Sec. | 10 |
| Tuning fork, time marker, 100 / Sec. | 10 |
| Electrodes, X-blocks, burette clamps, enamel bowls brass uprights, with coarse and fine adjustments basin, spirit lamps, copper wire (double cotton covered) Kymograph paper etc. | As required. |

(b) MAMMALIAN EXPERIMENTS:-

| | |
|--|--------------|
| Large extension Kymographs – Brodie-Starling complete with respiration pump, motor time marker manometer | As required |
| Operation table | 1 |
| Volume recorders | 8 |
| Dale's bath for internal organs | 30 |
| Isolated organs bath for students complete with liver etc. | 40 |
| Animal Weighing Machine, for small and big animals (for each) | 1 |
| Marry's tambour | 40 |
| Venus and arterial canula (different sizes) (each) | 40 |
| Smoking outfit, with fume cupboard | 1 |
| Varnishing outfit, for long and short papers. | 1 |
| Anaesthesia box. | 5 |
| Surgical instruments for operative procedures, syringes, pulleys, etc. | As required. |

(c) **HUMAN AND OTHER EXPERIMENTS:-**

| | |
|---|------|
| Microscopes, Oil immersion | 50+8 |
| Demonstrations eye piece | 4 |
| Double Demonstration eye piece | 4 |
| Stage incubator | 1 |
| Westergreen's Pipettes for E.S.R. on stand (with space pippetts) | 40 |
| Perimeter priestly Smith S/LP.984 B&T | 10 |
| Haemoglobinometer, Sahli or Hellige (with spaces) | 40 |
| Haemocytometers | 40 |
| Sphygmomanometer | 15 |
| Stethoscopes | 20 |
| Stethoscopes, Demonstration with multiple ear pieces | 4 |
| Polygraph | 4 |
| Venus pressure apparatus | 2 |
| Spirometer, Ordinary | 10 |
| Gas analysis apparatus, Haldane's students type | 1 |
| Van Clyko's apparatus manometric | 2 |
| Gas analyzer- Automatic for CO ₂ , O ₂ , N ₂ | 1 |
| Douglas bag, complete | 6 |
| Basal metabolism apparatus | 1 |
| Erogograph Mosse's | 10 |
| Clinical thermometer | 30 |
| Compas | 10 |
| Thermanaesthesiometer | 5 |
| Algometer | 5 |
| Apparatus for passive movement | 5 |
| Knee hammer | 15 |
| Stethograph | 15 |
| Bicycle ergometer | 6 |
| Olfactomer | 1 |
| Ophthalmoscope | 2 |
| Schematic eye | 4 |
| Phakoscope | 2 |
| Perimeters, with charts | 5 |
| Colour perception lantern Edridge Green | 1 |
| Maddox rod | 1 |
| Newtons colour wheel | 1 |
| Tuning forks to test hearing 32-10,000 (sets) | 4 |
| Dynamometer | 2 |
| Otorhinolaryngoscope | 5 |
| Steriliser Electric | 2 |
| Instrument trolley. | 1 |
| Stop Watches. | 10 |

(d) **GENERAL :**

| | |
|---|--------------|
| Physiograph, 3 channels, complete with accessories. | 2 |
| Physiograph, single channel, with accessories. | 8 |
| Centrifuge, High speed with technometer etc. | 1 |
| Calorimeter, Photo-electric | 2 |
| PH meter, electric | 2 |
| Refrigerator, 9-10c.ft. | 2 |
| Oxygen Cylinder with trolley | 8 |
| Co ₂ Cylinder with trolley | 3 |
| Electronic stimulator | 2 |
| Water distillation still, with spare heating elements | 1 |
| All glass distillation apparatus double stag. | 1 |
| Voltage stabilizer | 4 |
| Stepdown transformers | 1 |
| Thermometers, balances, microslides and glass ware etc. | As required. |

BIO-CHEMISTRY:

| | |
|---|----------|
| Boiling Water baths, with lids having 8-12 holes | 6 |
| Autoclave electric | 2 |
| Balance Semi micro | 2 |
| Balance Micro | 1 |
| Vortex mixers | 2 |
| Urinometers | 50 |
| Constant Temperature water bath | 4 |
| Ryles tube | 4 |
| Incubator electric with thermostat | 4 |
| Hot air oven | 4 |
| Magnetic Stirrer | 2 |
| Pump vacuum | 2 |
| Colorimeters | 6 |
| Refrigerators | 4 |
| Flame Photometer | 2 |
| | <u>Q</u> |
| Thermometers 0-250 .C | 4 |
| | <u>o</u> |
| Thermometers 0-110 .C | 4 |
| Cork borer set | 1 |
| Stop watch | 4 |
| Spirit lamp | 50 |
| Chromatographic chamber | 2 |
| Water distillation Plant (metallic) | 3 |
| All glass distillation apparatus | 3 |
| Dessicators large size | 6 |
| Dessicators small size | 6 |
| Centrifuge clinical for 12 tubes | 6 |
| PH Meters | 3 |
| Homogeniser | 3 |
| Microscopes | 6 |
| Ultra Violet (U.V.) lamp | 1 |
| Tools for small workshop for glass blowing and mending | 1set |
| Bottle dispensers | 15 |
| Samplers (autopipettes) different volume range | 15 |
| Electrophoresis apparatus with power supply for paper | 6 |
| PAGE AGAROSE | |
| Spectrophotometer | 1 |
| Binocular research microscopes | 2 |
| Glass ware as required by standard lab. Like pipettes, beakers and conical flasks, etc. as required | |

PATHOLOGY

- i. General:- Office table small and big, office chairs; museum almirahs; study table, staff room and library almirahs, stock almirahs, store room racks, lockers with coat hangers and drawers as required. Laboratory benches with cupboards and rack for reagent bottles, water, gas and electric points, operation tables etc. as necessary.

| | |
|---|-------------|
| Morbid Histology and Morbid Anatomy Sections | 1 |
| Weighing machine for cadavers | 2 |
| Rotary Microtomes | |
| Freezing Microtome with a stand for carbondioxide cylinder | 1 |
| Hot plates | 2 |
| Hot air (50 degree Celsius) for special staining | 2 |
| @ Paraffin embedding bath (ordinary) | 2 |
| @ Electric vacuum embedding baths | 2 |
| @ if Hissto Kinetite is not available. | |
| Autoclave electric | 2 |
| Distilled water still | 1 |
| Water bath 57 degree Celsius | 1 |
| Rectangular water bath | 1 |
| Centrigue machine Electric Rotofix | 1 |
| Colorimeter Photoelectric Kleft. | 1 |
| Cabinet for 1000 slides | As required |
| Band saw | 1 |
| Autopsy tables | 2 |
| Automatic tissue processor , Histokinmettee or similar, complete. | 1 |
| Staining racks for staining in bulk | 15 |
| Troughs for staining in bulk | 18 |
| Coplin jars | 24 |
| Water bath electric (Tissue Flootation) | 2 |
| Balance, chemical with weights | 2 |
| Microscopes, Monocular, with double nose piece, High power objective 2 eye-pieces, mechanical stage and condensor | 90 |
| Oil immersion lens for above. | 90 |
| Polarising attachments for microscopes | 1 |
| Micrometers, ocular | 1 |
| Demonstration eye pieces | 6 |
| Magnifying lens | 6 |
| Blood pressure Insrument | 2 |
| Micrometer stage | 2 |
| Hot plate electric | 2 |
| Laboratory Counter nine keys clay Adams | 8 |
| Laboratory stirrer | 1 |
| Automatic timer | 2 |
| Balance for weighing organs | 1 |
| Saws, wire for cutting bones | 1 |
| Slide boxes for 100 slides for students | 200 |
| Brill for boring glass | 2 |
| Blow piece with bellows for bending glass | 2 |
| Microphotographic apparatus | 1 |
| X-ray viewing box | 2 |
| Double Demonstration Eye piece | 4 |
| Microprojection apparatus | 2 |
| Sternal puncture needle Adult size | 2 |
| Sternal puncture needle child size | 2 |
| Liver Biopsy needle | 2 |
| Box weight analytical | 2 |
| Stop watch reading at 1/5 second. | 6 |
| Ultraviolet lamp | 1 |
| PH Meter electric | 1 |
| Microscope, Binocular, research | 1 |

| | |
|---|-------------|
| Paper Electrophoresis apparatus vertical. | 1 |
| Paper electrophoresis apparatus, horizontal | 1 |
| Water still electric | 1 |
| 2 x 2 slide Projector | 3 |
| Overhead projector | 1 |
| Museum Jars | As required |
| Drawing instruments and colours etc. for photo-artist | 1 set |
| Surgical instruments | 1 set |
| Dark room lamp, developing troughs | 1 set |
| Chemicals etc. for photo artist | |
| Glassware, stains and chemicals reagents etc. for Histological work | As required |

(c) Clinical Laboratory :-

| | |
|---|-------------|
| Microscope high power with oil immersion lense moveble stage and condensor for the routine microscope work. | 15 |
| Bottles Specific gravity 25 cc | 2 |
| Micro burretes 5 cc. | 2 |
| PH meter, with ultra micro blood PH electrodes and Electrical Contrifuge- One higher power contrifuge for serological works, one for Haematological work and one other. | 3 |
| Incubator | 1 |
| Haemacytometers with red and white pipettes | 90 |
| Haemoglobinometers, Sahili' type | 90 |
| Sedimentation apparatus – one wester green and one wintrobole. | 2 sets |
| Syringes disposable one set from 10 cc to 2 cc | 30 of each |
| Staining jars for slides. | 12 |
| Urinometers | 9 |
| Albuminometers, esbachs & Aufrech's type | 2 |
| Urine glass set (conical) | 12 |
| Water Baths with lids and holes thereon for holding test tubes etc. | 3 |
| Centrifuge tubes graduated | 36 |
| Crusible with china Lid. | 2 |
| Crusible Gooch with adapter | 2 |
| Graduated Cylinders of various | |
| Capacites ranging from 100 cc to 1000 cc. | 6 of each |
| Pipettes of various sizes, graduated sets. | As required |
| Reagent bottles | As required |
| Dropping bottles 4 ounce | As required |
| Reagents | As required |
| Balances – 1. Sensitive balance | 2 |
| 2. Chemical balance with weight boxes. | 2 |

MICROBIOLOGY

| | |
|--|----|
| Incubators, electrical (large) 37 degree Celsius | 5 |
| Autoclave | 3 |
| Hot air sterliser | 3 |
| Arnolds sterilser | 2 |
| Serum inspissators | 2 |
| Balance, Chemical | 2 |
| Lovibond comparators | 1 |
| Flasks flat bottom 50 cc. | 10 |
| Microscope oil-immersion moveable stage Abbe, condenser etc. | 80 |
| Microscope, dark ground work with arc lamp arrangement etc. | 1 |
| Refrigerators | 3 |
| Micrometer eye pieces | 2 |
| Micrometer stage | 2 |
| Centrifuge, electrical high power | 3 |
| Refrigerated centrifuge | 1 |

| | |
|---|-----|
| Distilled water plant | 2 |
| Distilled water plant all glass | 1 |
| Oil immersion lens for students microscope. | 80 |
| Dropping bottles for stains (Plastic) | 750 |
| Staining troughs | 100 |
| Anaerobic apparatus | 4 |
| Electrophoresis complete set | 1 |
| B.O.D. incubator | 2 |
| Laminar flow table | 1 |
| Ultra Violet (U.V.) Lamps | 1 |
| Venereal Diseases Research Laboratory (V.D.R.L.) shaker | 2 |
| Computer unit | 1 |
| Overhead Projector | 1 |
| o | 1 |
| Water bath (Serological) 37 . C | 1 |
| o | 1 |
| Water bath (Serological) 56 . C | 1 |
| o | 1 |
| Deep freeze (-20. C) | 1 |
| Elisa Reader, Dispensor and Washer | 1 |
| Bincular microscope | 3 |

Culture facilities :-

| | |
|--|-------------|
| Thermometers (Assorted) | 12 |
| Glass ware, such as pipettors burettes, beakers, conical flasks, petri dishes of different sizes, reagent bottles etc. | As required |
| Material for preparation of media. | As required |
| Stains | As required |
| PH Determination apparatus | 2 |
| Reagent bottles with stopper | |
| 2000 cc | 12 |
| 1000 cc | 48 |
| 500 cc | 24 |
| 250 cc | 24 |
| 100 cc | 60 |
| 50 cc | 60 |
| Test tubes hard glass | |
| 150 mm x 18 mm | 12 Gross |
| 100 mm x 12 mm | 25 Gross |
| 75 mm x 12 mm | 25 Gross |

PHARMACOLOGY

Office tables small and big, office chairs, museum almirahs, study tables, staff room and library almirahs, stock almirahs, store room rack, lockers with coat hanger and drawers as required. Laboratory benches with cupboards with racks for reagent bottles, water, gas and electric points and operation tables, etc., as necessary.

EXPERIMENTAL PHARMACOLOGY:

| | |
|---|----|
| Starling's long extension kymographs with time markers. | 3 |
| The ideal respiration pump (500 cc.CAP) | 3 |
| Brodi's operation tables | 3 |
| Incubators | 2 |
| Refrigerators | 2 |
| Assembly perfusion apparatus for mammalian heart | 4 |
| Standard power tables | 3 |
| Assembly for mammalian classes | 4 |
| Automatic electric recording drums. | 4 |
| Mechanical stromhus | 2 |
| Gadum's out-flow recorder | 2 |
| Centrifuge | 2 |
| Colorimeters | 3 |
| Canulas (different types) | 48 |

| | |
|---|---|
| Cauery machine, electric Blendstone | 1 |
| Varnishing Tray with foot lever | 2 |
| Four Unit isolated organ bath palmer F.67 | 1 |
| Analgesiometer | 1 |
| Smoking Burners Palmer A-291 and A-265 | 1 |
| Tracheal Cunula Metal Palmer E.76 | 4 |
| Condons Drop Recorder –Palmer B.75 | 1 |
| Prof.inchleys Drop Record – Palmer B.78 | 1 |

Animals weighing:

| | |
|--|-------------|
| a) Machine for small animals like rats and gunea pig. | 3 |
| b) Machine for big animals like dogs | 3 |
| Dissection instruments and injection syringes (The experimental physiology laboratory can be used if available for the students). | |
| *Kymograph (students) Electric independent unit | 150 |
| *Electric Motor ¼ with splic pulleys | 2 |
| *Shafting steel rod 3./4 “ diameter and 18” long | 8 |
| *Standard shafting and fittings | 40 |
| *Pulleys | 30 |
| *Muffs coupling for joining 2 pieces of the above mentioned shafting steel rods | 12 |
| *Not required in case of independent units. | |
| X-blocks | As required |
| Hook grip rods | As required |
| Plain Stand | 150 |
| Apparatus for isolated rabbit intestine etc. | 150 |
| Jacquets graphic chronometer | 3 |
| Frog Boards Palmer c.120 | 150 |
| Jackson’s Enterograph | 3 |
| Hair Aesthesiometer – Palmer W.290 | 3 |
| Long Extension for paper palmer A-130 | 2 |
| Animal Balance Triple Beam | 2 |
| Manometers mercury palmer C-200 | 6 |
| Metronome palmer B-5 | 2 |
| Oncometer Kidney | 2 |
| Oncometer hear | 2 |
| Copper Trays (10” x 8” x 1”) | 150 |
| Thermometer (upto 110 degree Celsius) | 150 |
| Distillation apparatus | 6 |
| Micscopes ordinary | 4 |
| Working tables with racks each table 36’ long | 9 |
| Chemical Balance – ordinary Apothecary’s | 2 |
| Chemical Balance – Sensitive | 2 |
| Dissection instrument | As required |
| Plethysmograph assorted | 4 |
| Pneumograph Palmer E. | 1 |
| Piston Recorder Palmer C.51 | 1 |
| Tambours Mareys Palmer C.5 & c.11 | 4 |
| Teanus Set Palmer H2O | 1 |
| Stop Watches Jacquets | 12 |
| Oxygen Cylinders with Trolleys 20 cu.ft. | 6 |
| Carbondioxide Cylinder | 2 |
| Operating lamps – Philips | 4 |
| Animal Trolley with 12 cages | 4 |

Miscellaneous :-

| | |
|---|-------------|
| Electrodes, Ordinary and non polarisable, insulated wires, time markers, electric signals, Mercury manometer, perfusion apparatus, myograph lever, small pulley’s upright stands and chemicals etc. | As required |
|---|-------------|

(C) Pharmacy Laboratory:-

| | |
|---|----|
| Dispensing Balance with metric system weights | 50 |
| Pill Tiles | 50 |
| Suppository moulds | 50 |
| Porcelain dishes | 15 |
| Crucibles with tongs | 15 |
| Pestle and Mortar | 50 |
| Iron Spatual | 50 |
| Measure glass all sizes | 50 |
| Water bath, matal | 15 |

Miscellaneous:-

| | |
|---|--------------|
| Chemicals, drugs, glass rods, funnels and filter paper etc. | As required. |
|---|--------------|

(D) SPECIAL CHEMICALS AND PHARMACOLOGICAL EQUIPMENT:-

| | |
|---|-----|
| Stimulator Electronic Arthus Thomas | 1 |
| Balance Semi micro Analytical Plan Mottler | 1 |
| Electrocardiograph | 1 |
| Spectrophotometer Model Du-Backman (UV Visible range) | 1 |
| Skin and Rectal Thermometer Braun | 1 |
| Anihistamine Chamber with manometer | 1 |
| Flame photomer | 1 |
| Stop clock | 18 |
| Water Bath 4 hole Electrically heated | 12 |
| Bell Jars Assorted | 4 |
| Petri Dishes Assorted | 36 |
| Museum drugs specimen jars | 30 |
| All glass distillation apparatus cap. 2 liters | 2 |
| Centrifuge Electric International R.P.M. 3000 | 4 |
| Microscope students type with mechanical stage and oil immersion | 4 |
| Microscope lamps | 4 |
| Magnetic stirrer B.T.L. | 1 |
| Autoclave electric | 1 |
| Waring Blender M.S.E. | 1 |
| Hot air over size 14" x 14" x 14" | 1 |
| Incubator Electric Size 14" x 14" x 14" | 1 |
| Vacuum & Pressure Pump Cenco | 2 |
| Instruments Steriliser Electric size 12" x 8" x 6" | 2 |
| B.P.Apparatus | 12 |
| Distilled water still Manesty Electrical Cap 2 gallon per hour | 2 |
| Stethoscope | 12 |
| Multimeter | 1 |
| o | 1 |
| Temperature controlled water bath 37 C. | |
| Razor Hone | 2 |
| Electric Hot Plate | 2 |
| Deionizer – two of capacity 20 liters per hour and 6 liters per hour (mixed bed type) Connected in series. | |
| Physiographs with transducers and other relevant accessories (may substitute kymographs) | 60 |
| Vortex mixer | 2 |
| Actophotometer | 1 |
| Rotarod Assembly | 1 |
| Electro-Convulsiometer | 1 |
| Cook's Pole Climbing Apparatus | 1 |
| Metabolic Caggas (Dieuretic Study) | 3-4 |
| Digital pH meter | 1 |
| Tablet Disintegration machine | 1 |

| | |
|--|-------------|
| Glass tubing (length of 6 ft.) | As required |
| Glass rods – assorted sizes of 6 ft. | 150 |
| Glass mortar & pestles capacity of 500 and 200 CC | 36 each |
| Cork borer set of 12 | 1 set |
| Holder for platinum wireloop | 160 |
| Lancet spring (disposable) | 160 |
| Lamp for microscope | As required |
| Magnifying glass with metal handle. | 80 |
| Metal mincing machine | 1 |
| Postmortem instruments sets complete. | 2 set |
| Suction pumps | 1 |
| Filtering apparatus sietz filter and milipore filter- | 1 each |
| Dessicators | 2 |
| Vacuum Dessicator | 1 |
| Apron plastic for postmortem | 2 |
| Apron rubber for postmortem | 2 |
| *Lyophilizer | 1 |
| *Thermal cycler | 1 |
| * U.V.Transilluminator with photography | 1 |
| * Colony counter | 1 |
| *Cold room + degree Celsius | 1 |
| * BACTEC System | 1 |
| * Phase contrast Microscope | 1 |
| * Vortex mixer | 1 |
| * Electronic Balance | 1 |
| * Microfuge | 1 |
| * Ultra centrifuge | 1 |
| * Flourcescent Microscope | 1 |
| * Desirable additional equipment in the department of Microbiology. | 1 |

FORENSIC MEDICINE

| | |
|---|----|
| Weighing machine, dial type human | 2 |
| Equipment for reporting height | 2 |
| Balance chemical | 1 |
| Balance, single pair for weighing foetus | 1 |
| Weighing machine for Weighing dead bodies | 2 |
| Weighing machine for organs | 1 |
| Floding metal scale to measure upto 7 ft. | |
| Steel tape roll | 2 |
| Sarnier calipers | 1 |
| Autopsy table | 2 |
| Styker autopsy saw, with accessories | 3 |
| Hacksaw | 4 |
| Dissection sets, consisting of cartilage knife, bone cutting forceps scissors, stright and curved Enterotome Scaples, knives with spare blades, probe metal scale graduated in cms. Etc. | 4 |
| Ribg.shears, right and left. | 4 |
| Viscerotome with attachment for illumination (Battery operated) | 1 |
| SLR Camera with accessories | 1 |
| Microscope student type | 30 |
| Microscope Binocular, research | 4 |
| Stopwatch | 2 |
| X-ray view box one if four | 5 |
| View Box Two in one | 4 |
| B.P. Apparatus | 5 |
| Anthropometric set | 1 |
| Automatic tissue processing machine | 1 |
| Microtome with knife | 1 |
| Hot plates | 1 |
| L.Modes | 16 |
| Leather Strops | 2 |

| | |
|--|-------------|
| Parafin Bath Embedding | 1 |
| Slide Warming Table | 1 |
| Stone Carbarandon | 2 |
| Water Bath (Tissue Flowing) | 1 |
| Distilation plant | 1 |
| Brain Knife | 8 |
| Block Holder | 50 |
| Digital Spectrometer | 1 |
| Digital PH Meter | 1 |
| Electric Auto Slide Projecter | 1 |
| Glass cutting Pencil | 1 |
| Hand set heat sealer | 1 |
| Spectroscope Lens with adjustable slit | 2 |
| Refrigerator | 1 |
| Cold storage for keeping dead bodies | As required |
| Deep freezer for keeping tissues | As required |
| Video Camera, Television and Video Cassette Recorder. | 1 each |
| Instrument Cabinet, instrument, trolley, filing cabinet with folders, filing cabinets for almirah etc. | As required |

COMMUNITY MEDICINE (SPM)

| |
|---|
| Comparator, Nessler |
| Barometer, Fotin |
| Extraction Aooaratus, Fat, complete |
| Filter, Pasteur chamberland, complete set |
| Filter, Berke feld |
| Hydrometres, spirit |
| Hydrometres, milk |
| Hydrometres, wet and dry BULB |
| Incubator, Electric |
| Museum jars |
| Models, charts, diagrams etc. |
| Balance Analytical 200 gm |
| Balance for weight food stuff |
| Capacity 2 kg. |
| Centrifuge Clinical |
| Weighing machine adult |
| Salters Baby weighing machine |
| Herpanders Callipers (for skin fold thickness) |
| Height measuring stand |
| Aqua guard |
| Refrigerator 9 cu.ft. |
| Ice Lined Refrigeraor (ILR) |
| Dissecting microscope |
| Microscope oil immersion |
| T.V., V.C.R. |
| Still for distilled water |
| Autoclave |
| Sterlizers, electric |
| Computer |
| Over Head Projector |
| The rural and health centers for training of undergraduate students shall be suitably equipped along with adequate transport. |

GENERAL MEDICINE

| | |
|--|-------------|
| B.P.Apparatus | 40 |
| Ophthalmoscope | 10 |
| Lumbar puncture needles (disposable) | As required |
| Haemocytometer | 5 |
| Light Microscope | 3 |
| Haemoglobinometer | 5 |
| Centrifuge Machine | 3 |
| Urinometer | 3 |
| Plural biopsy needle (disposable) | As required |
| Liver biopsy needle (disposable) | As required |
| Kidney Biopsy needle (disposable) | As required |
| X-ray viewing box | 25 |
| Overhead projector | 2 |
| Slide Projector | 2 |
| Upper GI endoscope | 3 |
| Colonoscope | 3 |
| Sigmoidoscope | 3 |
| Proctoscope | 10 |
| Facilities for doing tests for malabsorption | As required |
| Ultra sound machine | 1 |
| Fiberoptic bronchoscope | 2 |
| Spirometer | 2 |
| Bed side Cardiac monitors | 16 |
| Central Cardiac monitor console | 1 |
| Defibrillator | 16 |
| Non invasive B.P. Apparatus | 16 |
| Pulse oxymeter | 16 |
| Equipment for Cardiac pacing | 1 |
| Ambu bag | 16 |
| Laryngoscope | 16 |
| ECG Machine | 16 |
| Echocardiography machine | 2 |
| Tread Mill test machine | 1 |
| Haemodialysis machine | 5 |
| Peritoneal dialysis catheters | As required |
| Arterial blood gas analyzer | 2 |
| Na / K analyzer | 2 |
| Equipment for measuring diffusion capacity | 1 |
| Microprocessor based spectrometer | 2 |
| Gamma cameras | 1 |
| Glucometer | 10 |
| Radioisotope scan laboratory | 1 |
| Electro Encephalogram (EEG) Machine | 1 |
| EMC and nerve conduction velocity machine | 1 |
| Fine needle aspiration needle | As required |
| Aspiration needle | As required |
| Torches | 40 |
| Patient examination table | 35 |
| Rubber Hammer | 35 |
| Reagents for doing Gram's and Ziehl Neilson staining | As required |
| computer (one for each medical unit) | 6 |
| Radiopagers | 40 |
| Endotracheal tubes | As required |
| Emergency lights | 10 |

PAEDIATRICS

(A) Resuscitation Equipments:-

| | |
|--------------------|-------------|
| Ambu bag | |
| - infant | 4 |
| -children | 4 |
| Face mask | 4 |
| Nasal prongs | As required |
| Nasal catheters | As required |
| Endotracheal tubes | As required |
| Suction apparatus | 1 |
| Suction catheters | As required |
| Laryngoscope | |
| -Infant | 1 |
| -Children | 1 |

(B) Oxygen Delivery System :-

| | |
|-------------------------------|---|
| Oxygen Cylinder | 1 |
| Oxygen regulator | 1 |
| Oxygen Humidifiers | 1 |
| Oxygen Headbox (or each size) | 1 |
| Nebulisers | 8 |

(C) Drug Delivery Equipment / Catheter / Tube:

| | |
|--|-------------|
| Intra-venous (I.V.) Drip set | As required |
| Measured volume set | 4 |
| Blood transfusion set | 4 |
| Intra-venous (I.V.) Canula (Butterfly type) | As required |
| Intracath | 8 |
| Umbilical vein Catheter | 8 |
| Feeding tubes | As required |
| Three way and four way value | 4 |
| Malecot's catheter | 8 |
| Cut open canula | As required |

(D) Measurement Equipments:

| | |
|-------------------|-------------|
| Weighting machine | |
| -Infant | 1 |
| -Child | 1 |
| -Neonates | 1 |
| Infantometer | 1 |
| Measuring Tape | As required |
| Shakir's Tape | As required |

(E) Work lab and investigations :-

| | |
|--------------------------------------|-------------|
| Student Microscope | 2 |
| Nuclear Chamber | 4 |
| Hemoglobinometer | 4 |
| Test tube | As required |
| Spirit lamp | 4 |
| Stains for – Leishman's staining | As required |
| -AFB Staining | As required |
| - Grams staining | As required |
| Dextrostix | As required |
| Multistix | As required |
| Uristix | As required |
| Micro Erythrocyte Sedimentation Rate | As required |

| | |
|--------------------------------|-------------|
| (ESR) tubes. | |
| Filter paper | As required |
| Bone marrow needle | 4 |
| Lumber Puncture (L.P.) Needles | 4 |
| Pleural aspiration needle | 4 |
| Vim-Silverman | 4 |
| Biopsy needle | 4 |
| Mengneiz Needle | 4 |
| True cut Renal | 4 |
| Biopsy needle | |
| X-ray View box | 1 |

(F) **Miscellaneous:**

| | |
|-------------------|-------------|
| Radiant Warmer | 1 |
| Infant Incubator | 1 |
| Phototherapy unit | 1 |
| Ophthalmoscope | 1 |
| Thermometer-Oral | As required |
| - Rectal | As required |

TUBERCULOSIS & RESPIRATORY DISEASES (TB & CHEST DISEASES)

| | |
|--|-----|
| Peak flow meters | 3 |
| Nebulizers | 6 |
| Intercostal Drainage Facility | 4 |
| Pleural Biopsy Needles | 2 |
| Pulse Oximeter | 2/1 |
| Fiberoptic Bronchoscope | 2/1 |
| Rigid Bronchoscope | 1 |
| Pulmonary function Test machine with facility for Spirometry, lung volume and diffusion capacity. | 1 |
| Arterial Blood Gas machine. | 1 |

DERMATOLOGY – VENEREOLOGY & LEPROSY

Facilities for examining smears for bacteria, fungi, mycobacteria and acantholytic cells.

- i. Light microscope with facility for dark ground illumination microscopy.
- b) Gram's stain
- c) Zeihl-Neelsen's stain
- d) Giemsa stain facilities for electro-surgery and chemosurgery
 - a) Electro- cautery machine
 - b) Trichloroacetic acid.

PSYCHIATRY

| | |
|--|---|
| E.C.T.Machine preferably with Electro Convulsive Therapy (ECT) monitoring | 3 |
| Electro Cardio Graph machine | 1 |
| EEG machine | 1 |
| Lithium analyzer | 1 |
| Biofeed-back Instruments (sets) | 1 |
| Thin layer Chromatography (for drug dependence treatment) | 1 |
| Alcohol breath analyzer | 1 |
| Psychological Tests equipment | |
| a) Project Tests | 4 |
| b) Intelligence Tests | 4 |
| c) Personality Tests | 4 |
| d) Neuro Psychological tests | 4 |

GENERAL SURGERY

I) O.P.D.

| | |
|---|---|
| Blood Pressure Apparatus, Stethoscope, diagnostic kit, weighing machine, Skinfold Caliper, Height scale. | 8 |
| X-ray viewing box 4 in 1 | 8 |
| Proctoscope & Gabriel Syringe | 8 |
| Sigmoidoscope (Rigid) | 2 |
| Flexible Endoscope, Upper GI, Colonoscope (one set in Main O.T.) | 2 |
| Diagnostic Cystoscope | 1 |
| Ultrasound | 1 |
| Uroflowmetry | 1 |

II) MINOR Operation Theatre:-

| | |
|---|-------|
| Operation Theatre Table | 2 |
| Operation Theatre Ceiling light | 2 |
| Pedestal lights | 4 |
| Electro-surgical unit | 1 |
| Suction | 4 |
| Pulse oximeter (one for Endoscopy Room) | 4 |
| Anaesthesia equipment | 1 set |
| Resuscitation kit | 1 |
| Assorted Surgical Instruments for minor operation sets | 12 |
| Autoclave. | 1 |

WARDS:-

| | |
|---|---------|
| B.P.Apparatus, Stethoscope, diagnostic kit (4 sets in each ward) | 16 sets |
| Weighing machine, height scale, skinfold Caliper (2 each in each ward) | 8 |
| Proctoscope (2 in each ward) | 8 |
| Monitors for pulse Rate, Heart Rate, E.C.G. Invasive and non-invasive pressure. (2 in each ward) | 8 |
| Incubators / Transport Incubators | 4 |
| Neonatal Bassinet | 4 |
| Ultrasound | 1 |
| Arterial Blood Analyser | 1 |
| Oesophageal / gastric PH & pressure recorder | 1 |

III) OPERATION THEATRE:-

| | |
|---|--------|
| Operating Tables | 8 |
| Operating Ceiling light | 8 |
| Pedestal side light (for emergency use) | 4 |
| Electrosurgical unit | |
| General sets (8 for each Operation Theatre) | 10 |
| Burr hole set | 64 |
| Vascular set (1 in each O.T.) | 2 |
| Anaesthesia Equipment as per requirement of Anesthesia department. | 8 |
| Diagnostic and operative laproscope | 2 |
| Cystoscope and Resectoscope | 2 |
| Bronchoscope | 1 |
| Flexible Gastro Intestinal Endoscope | 1 |
| Laser (May be shared with other departments) | 1 |
| C-arm image intensifier | 1 |
| Operating microscope – binocular with video monitor | 1 |
| Operative ultrasound | 1 |
| Stapling device Assorted | 2 sets |
| Endo-stapler | 1 set |
| Closed Circuit T.V. | 2 |

IV) MISCELLANEOUS:-

| | |
|---|---|
| Photocopier | 1 |
| Computer with laser Printer | 1 |
| Electronic Typewriters | 2 |
| Slide-Projector | 4 |
| Overhead projector | 8 |
| Video Cassette Recorder / Video Cassette Player | 2 |

ORTHOPAEDICS

| | |
|--|--------|
| Basic Instrumentation set for fracture. | 8 sets |
| Small Fragment and large fragment | 4 |
| External Fixator | 8 |
| C-Arm (Image Intensifier) | 2 |
| Portable X-ray Machine | 1 |
| Arthroscope | 1 |
| Slide Projector | 2 |
| Over-head projector | 2 |
| Movie camera for demonstration of live operations. | 1 |
| Plaster room equipment (sets) with plastic table. | 2 |
| Physiotherapy and occupational Therapy equipment sets. | 1 |
| Operation room equipment (sets) | 2 |

OPHTHALMOLOGY

a) Out Patient Department:-

| | |
|---|----|
| Snellen Chart / Snellen drum with or without remote control | 6 |
| Trial set with trial frame both for adult and children | 6 |
| Bjerrum Screen | 2 |
| Perimeter | 2 |
| Colour vision chart | 3 |
| Near vision chart with different language | 6 |
| 3 cell torch | 12 |
| Ophthalmoscope and Retinoscope | 6 |
| Common equipments in the OPD. | |
| Slit lamp | 3 |
| Applanation tonometer | 2 |
| Keratometer | 2 |
| Indirect Ophthalmoscope | 2 |
| Synoptophore | 2 |
| Maddox Rod | 2 |
| Maddox Wing | 2 |
| Dipl;oma goggles | 1 |
| Gonioscope | 2 |
| Placido disc. | 2 |
| Prism Bar | 2 |
| Schoutz tonometer | 4 |

ii) MAJOR Operation Theatre:

| | |
|---|---|
| Operating microscope with TV unit with camera | 2 |
| Crye unit | 2 |
| Cataract set | 7 |
| Glaucoma set | 3 |
| DCR Set | 3 |
| Entropian set | 3 |
| Enucleation set | 3 |
| Evisceration set | 3 |
| Squint set | 3 |

iii) GENERAL OPHTHALMIC EQUIPMENTS

| | |
|-------------------------|---|
| Operation Theatre Table | 2 |
| Operation Theatre Light | 2 |

iv) MINOR Operation Theatre:- Minor O.T. Should have the equipment for the removal of the foreign body, sutures, and chalazion or sty.

v) WARD

| | |
|--|---|
| Slit lamp | 1 |
| *Snellen Chart / Snellen drum with or without remote control | 1 |
| Trial set with trial frame both for adult and childred | 1 |
| Bjerrum screen | 1 |
| Perimeter | 1 |
| Colour vision chart | 1 |
| Near vision chart with different language | 6 |
| 3 cell torch | 6 |
| Ophthalmoscope and Retinoscope | 2 |

ENT

a) Out Patient Department:- (per doctor)

| | |
|-----------------------|---|
| Nasal speculum | 4 |
| Tongue depressor | 4 |
| Laryngeal mirros | 4 |
| Nasopharyngeal mirros | 4 |
| Aural speculum | 4 |
| Ear suction | 2 |
| Nasal suction | 2 |
| Suction apparatus | 1 |
| Siegles speculum | 1 |
| Tuning fork (512 Hz) | 1 |
| Otoscope | 2 |
| Bayonet forceps | 1 |
| Bulls lamp | 1 |
| Head lamp | 1 |
| ENT Examination chair | 2 |
| Jobson Horne probe | 1 |
| Sterilizer | 1 |
| BP Apparatus | 1 |
| Stethoscope | 1 |

b) MAJOR Operation Theatre:

| | |
|---|---|
| a) Tonsillectomy and adenoidectomy set Biopod | 1 |
| Boyle-Davis mouth gag | 1 |
| Tonsil holding forceps | 1 |
| Tonsil dissector and pillar retractor | 1 |
| Tonsil snare | 1 |
| Burkit artery forceps | 1 |
| Negus artery forceps | 1 |
| Negus know tier | 1 |
| Tonsil scissors | 1 |
| Adenotome | 1 |
| Adenoid curette | 1 |
| Yankauer oropharyngeal suction tip | 1 |
| b) Set for nasal bone fracture | |
| Asch forceps | 1 |
| Walsham forceps | 1 |
| c) Septoplasty set | |
| Bayonet forceps | 1 |
| Killians nasal speculum | 1 |

| | |
|--|------|
| Freer elevator | 1 |
| Ballenger's swivel knife | 1 |
| Takahashi forceps | 1 |
| Fish tail gouge and mallet | 1 |
| d) Caldwell luc set | |
| Nasal gouge | 1 |
| Mallet | 1 |
| Robbon Retractor | 2 |
| Cheek Retractor | 2 |
| e) Antrostomy set | |
| Antral | 1 |
| Retrograde gouge | 1 |
| Antral rasp | 1 |
| f) *FEES Set | |
| *Rigid nasal endoscope 0 | 1 |
| * Rigid nasal endoscope 70 | 1 |
| * Light source | 1 |
| * Sickle knife | 1 |
| * Retrograde punch | 1 |
| * Blakesley forceps – straight | 1 |
| -40 upturn | 1 |
| - Optional for MBBS | |
| g) Direct laryngoscopy set | |
| Anterior commissure | 1 |
| Laryngoscope | 1 |
| Negus laryngoscope | 1 |
| Lighting system for Laryngoscopes | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Laryngeal suction | 1 |
| h) *Microlaryngoscopy set | |
| *Kleinsasser's Laryngoscope | 1 |
| *Fibrotic lighting system | 1 |
| *Suspension system for Laryngoscope | 1 |
| * Microlaryngeal cup forceps | 1 |
| * Microlaryngeal scissors | 1 |
| i) *Tympanoplasty set | |
| * Aural speculum | 4 |
| *Drum curette | 2 |
| *Drum elevator | 1 |
| * Microsuction | 2 |
| *Graft knife | 1 |
| * Graft press | 1 |
| j) *Mastoidectomy set | |
| *Mallet. | 1 |
| *Gouge | 4 |
| *Endaural retractor / post aural retractor | 2 |
| *Electric drill (Motor, Handpiece and burrs) | 1 |
| *Mastoid seeker | 1 |
| *Aitus seeker | 1 |
| *Malleus head nipper | 1 |
| k) *Stapedectomy set | |
| *Pick-straight | 1 |
| Angled | 1 |
| *perforator | 1 |
| * Measuring rod | 1 |
| *Prosthesis crimper | 1 |
| l) *Oesophagoscopy set | |
| Oesophagoscopes | 3 |
| Lighting | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Suction | 1 |
| Oesophageal dilators | 1set |
| m) *Bronchoscopy set | |
| * Bronchoscopes | 3 |

| | |
|--------------------------------|---|
| *Lighting system | 1 |
| *Biopsy forceps | 1 |
| *foreign body removal forceps | 1 |
| *Suction | 1 |
| *Optional for MBBS | |
| n) Tracheostomy set | |
| Needle holder | 1 |
| Bard Parker knife handle | 1 |
| Robbon right angled retractors | 2 |
| Curved arteries | 4 |
| Straight arteries | 1 |
| Cricoid hook | 1 |
| Tracheal dilator | 1 |

iii) MINOR Operation Theatre:-

| | |
|------------------------------------|-------------|
| a) Antral wash set | |
| Tracar | 2 |
| Canula | 2 |
| Higginsons syringe | 2 |
| b) Direct laryngoscope set | |
| Laryngoscope – Anterior commissure | 1 |
| -Negus | 1 |
| Lighting system | 1 |
| Biopsy forceps | 1 |
| Foreign body removal forceps | 1 |
| Sterilizer | As required |
| Aural syringe | As required |
| Tracheostomy set | As required |
| Intubation set | As required |
| Cricothyrotomy set | As required |
| Quinsy forceps | As required |
| Laryngeal forceps | As required |
| Aural snare | As required |
| Aural cup forceps | As required |

iv) *WARDS:

| | |
|------------------------------------|-------------|
| *semi Intensive Care Unit (4 beds) | |
| *Central suction | As required |
| *Oxygen | As required |
| *Humidifier | As required |
| *Optional for MBBS | As required |

v) MISCELLANEOUS EQUIPMENTS:-

| | |
|-------------------------------------|-------------|
| Operating microscope for major O.T. | 1 |
| For minor O.T. | 1 |
| Puretone audiometer | As required |
| Impedance audiometer | As required |

SPECIAL EQUIPMENT:-

| | |
|----------------------------------|---|
| *a) Temporal bone lab Microscope | |
| *b) Drill Mastoid set | 1 |
| *Optional for MBBS | |

vi) ANY OTHER ADDITIONAL EQUIPMENT WHICH ARE DESIREABLE:-

| | |
|---|-------|
| Flexible nasopharyngolaryngoscope | 1 |
| Electronystagmograph | 1 |
| Brainstem evoked response audiometer | 1 |
| Goggles, plastic apron, gloves for examination of patients with biohazard (HIV and Au positive) | 1 set |

OBSTETRICS & GYNAECOLOGY

1) General:

| | |
|---|----|
| Speculums and Retractors | 75 |
| EA+ECC Sets | 30 |
| PCT forceps | 15 |
| Ayers spatula | 45 |
| Cytology bottle | 45 |
| Microscope | 3 |
| MR Syringes | 15 |
| Coloposcope | 3 |
| Crye / electro cautery apparatus | 3 |
| Simple fetal Doppler | 3 |
| NST machine | 6 |
| Stitch removal sets | 15 |
| Dressing sets | 15 |
| Ultrasound machine | 3 |
| Proctoscope | 9 |
| Weighing machine | 3 |
| Height scale | 3 |
| View box (BP apparatus, measuring tapes, gloves, syringes, needles, torch) | 3 |
| Resuscitation try (Laryngoscope, ET tube, ambu bag, suction catheter, essential drugs). | 2 |
| Suction machine | 2 |
| Hysterosalphigogram Canula | 15 |

2) MAIN Operation Theatre.

| | |
|--|---|
| Abdominal Hysterectomy set (arteries, scissors, scalpel, Allis's kelly's clamp, Babcock forceps, thumb forceps, Harington & Richardson retractors.) | 9 |
| Vaginal Hysterectomy set (Scalpel, sissors, metal catheter, Sim's, Speculum, Volsellum, kelly's clamps, right angle retractor, arteries, Allis, uterine sound, bladder sound). | 9 |
| Tuboplasty set | 6 |
| Myomectomy instruments (myoma screw, Boney's clamp) | 3 |
| Diagnostic laparoscopy set | 6 |
| Operating taparoscopy set | 6 |
| Hystroscopy set | 3 |
| Electronic Co2 insuffactor / insufflator basic unit | 6 |
| Resctoscope | 3 |
| Hysteromat | 3 |
| Operating microscope / Loupe | 2 |
| Eoelectrocautery | 3 |

3) SPECIAL EQUIPMENT

| | |
|--------------------------|---|
| Contact microhystroscope | 2 |
| Co2 and Nd Yag laser | 1 |

4) LABOUR ROOM

| | |
|------------------------|----|
| Delivery sets | 30 |
| B.P.Apparatus | 9 |
| Weighing machine | 2 |
| Fetal Doppler | 3 |
| Cardiotocogram machine | 5 |
| Portable ultrasound | 2 |
| High suction machine | 3 |
| Resuscitation tray | 3 |

5) SPECIAL EQUIPMENT

| | |
|---|---|
| Oxytocin infusion pumps | 9 |
| Multichannel monitors | 6 |
| Intrauterine Pressure monitoring system | 6 |
| *Fetal scalp electrodes Facilities for fetal scalp pH | 4 |

6) TEACHING SET

| | |
|-----------------------------------|---|
| Doll and Dummy | 3 |
| Female Pelvis | 3 |
| Gross specimens | |
| x-ray / Ultra Sound films | 3 |
| View box | 2 |
| Video Cassette Recorder | 1 |
| Overhead Projector | 2 |
| Slide Projector | |
| Set of instruments / forceps etc. | |

7) MISCELLANEOUS

| | |
|--|--|
| Camera with 200 m lens | |
| Endocamera / Television | |
| TTL flash light | |
| Carbondioxide Monitor | |
| Caculter channelizer | |
| *Disposables, to be issued on monthly basis. | |

8) MINOR Operation Theatre

| | |
|---|----|
| Cervical biopsy set | 10 |
| MTP Set | 15 |
| D&C Set | 15 |
| Hydrotubation set | 6 |
| IUCD Insertion / removal set | 20 |
| High suction machine | 4 |
| Resuscitation Tray | 1 |
| E.B.Set (Operation Theatre lights, OT Tables) | 10 |

9) MATERNITY Operation Theatre.

| | |
|--|----|
| Set for LSCS | 12 |
| D and C set | 15 |
| MTP Set | 15 |
| High suction machine | 4 |
| Cervical exploration set | 6 |
| Uterine packing forceps | 6 |
| Abdominal hysterectomy set | 3 |
| Diagnostic laparoscopy set | 4 |
| Laprocator for tubal ligation | 6 |
| Post partum ligation set | 6 |
| Outlet forceps | 9 |
| Low mid cavity forceps / kjielland forceps | 6 |
| Vacuum Extractor and suction machine | 6 |
| Resuscitation tray | 3 |
| Decapitation hook | 3 |
| Cranioclast with cephalotribe | 3 |
| Oldham Perforator | 2 |
| Infusion Pump | 6 |
| EB Set | 6 |

Operation Theatre table, Operation Theatre lights, Central Oxygen and suction.

10) SPECIAL EQUIPMENT

| | |
|--|---|
| Multichannel monitor with ECG, BP, HR, Pulse Oxymetry for high risk pregnant patients (eclampsia, heart diseases etc.) | 3 |
|--|---|

11) WARDS

| | |
|-------------------------|-----|
| B.P.Apparatus | 10 |
| Weighing machine | 1 |
| Height scale | 1 |
| Speculum and retractors | 100 |
| Glucometer | 2 |
| Microscope | 2 |
| Suture removal sets | 15 |
| Dressing sets | 20 |
| Ultrasound | 2 |
| Cutdown sets | 3 |
| Blood gas analyzer | 1 |
| CTG Machine | 2 |
| Suction machine | 4 |
| Resuscitation tray | 4 |
| View box | 3 |
| Central O2 and suction | |

12) SPECIAL EQUIPMENT

| | |
|--|---|
| Ultrasound machine with Doppler / vaginal probe / facilities for interventional procedure | 2 |
| Multichannel Monitor | 2 |
| Fetal Monitor for Antepartum Surveillance | 3 |
| Comoputer for data entry (Gloves, Syringes, needles, torch, measuring tape etc.) | 1 |

13) LAB EQUIPMENT FOR FOLLOWING INVESTIGATIONS:

H.gram
 Urine examination
 Semen analyses
 Renal Function Test (RFT), Liver Function Test (LFT),
 Including Serum Blutamse Test (SBT)
 Electrolytes, Blood sugar
 Culture facilities
 24 hr urine alb. Creatinine
 VDRL TORCH
 HIV
 Serum, BHCG, estriol, MSAFP
 Semen wash
 FSH, LH Prolactin, T3, T4,
 TSH, Testosterone, DHEAS
 Chlamydial and other reproductive tract infection testing
 GENETIC LAB – Cytology, Chromosome study, PCR for
 various
 abnormalities, facilities for biochemical tests
 and enzyme studies for prenatal diagnosis.
 Blood gas analyzer.
 Thalassemia study.
 ABO and Rh typing.
 PCR for tuberculosis
 Viral markers for Hepatitic studies.
 Coagulation profile, fibrinogen degradation
 Products.
 Blood Bank facilities
 Cryopreservation.
 Assisted reproductive techniques.

RADIOLOGY

| | |
|---|----------------|
| Conventional X-ray Unit for routine X-ray and IVV. | 4 |
| Mobile X-ray and IVV. | |
| c) 30 MA | 3 |
| d) 60 MA | 3 |
| Fluoroscopic unit | 2 |
| Both conventional and image intensifying unit for gastro- enterology and gynae work etc. | 2 |
| Ultrasonography equipment | 2+1 additional |
| Unit independently and exclusively for Obstetrics and Gynaecology unit | |
| Ct | |
| Mammography (preferably) | 1 |
| MRI (Preferably) | |

ANAESTHESIA

| | |
|--|---|
| Blood Pressure Instrument (Non-invasive) | 1 |
| Weighing Machine | 1 |
| Height Scale | 1 |
| <u>Ward (Recovery)</u> | |
| Resuscitation equipments (CPR) | |
| a) Adult Dummy | 1 |
| b) Paediatric dummy | 1 |
| c) Artificial breathing bag with face Masks | 1 |
| d) Defibrillator | 1 |
| Suction Machine | |
| - Electrical | 5 |
| - Manual | 5 |
| Oxygen therapy unit | 8 |
| Pulse Oximeter | 2 |
| E.C.G. Monitor | 2 |
| E.T.Co2 Monitor | 1 |
| Simple anaesthesia machine with resuscitation equipments and accessories, | 1 |
| Mechanical Ventilator | 2 |

FORM -
(SEE STATUTE)

APPLICATION FOR CERTIFICATE OF REGISTRATION AND CONSENT FOR
AFFILIATION.

1. Name/Name(s) of the applicant(s) Trust / :
Society.
2. Name of the college proposed. :
3. Details of the constitution of the Managing Body :
of college, copies of bylaws / terms of The trust
/ society etc. to be enclosed.
4. Addressed to which communications are to be :
Sent, with telephone number if available.
5. Address where the college is proposed to be :
located.
6. Number of candidates to be admitted in the first :
year of the course.
7. Details regarding availability of land, ready built :
area and other physical infrastructures, etc. of
the college and the hospital (copies of title
deeds and documents and latest encumbrance
certificate, etc. to be enclosed).
8. Particulars regarding arrangements of residential :
quarters for the staff.
9. Details regarding availability of playgrounds. :
10. Details regarding hostel facility proposed . :
11. Details of facilities and other requirements :
Fulfilled as stipulated in the statutes of the
University for issue of certificate or Registration
(with necessary breakup details).
12. Details of ear-marked assets and resource to be :
utilised for running the proposed Medical
College.
13. Details of the Master plan regarding the :
development of college and hospital, strength of
beds and other necessary facilities available
(plan shall be enclosed). Separate plans
earmarking space allotted to hostel, staff
quarters, Playground etc. to be furnished.

14. Details regarding the availability of water :
supply, electricity supply, transport etc.

15. Details regarding the financial soundness of the :
trust / society. (If the society is already **existing**
correct information about funds allotted towards
proposed College - ***Resolutions of Society*** to be
enclosed. If the Society is **new** sources of
income to establish and to run the proposed
College – ***Resolutions of society to enclosed.***)

16. Whether the trust / society has the capacity to deposit :
the amount specified in the statutes.

17. Details regarding the annual come of the trust /
society etc.

18. Particulars of fee remittance made by the
applicant trust/society.

19. Whether the trust / society fulfills all the
conditions and requirements as specified in the
statutes to apply for certificate of registration.

Station:
Date:

Signature of the Applicant