

## **List of Departments with available facilities**

### **Department of Anatomy**

#### **Equipment:**

- Microscopes
- Special Microscopes
- Microscopes with camera
- General and Special Stained Histology Slides
- Computers with Printers
- Reagents for Tissue Processing
- Embalming Machines and Reagents per Embalming
- Equipment and Reagents for Karyotyping/ Chromosome Analysis
- Advance Technology Anthropology Instruments
- Histology Special Stains
- Separate head and neck bone like ethmoid, sphenoid bones
- Separate Bones of Hand and Foot
- Developing Bones Showing Epiphysis
- Developing Embryo slides
- Specially Stained Histology Slides
- Meat (Body) Cutting machine

#### **Infrastructure:**

- Dissection Hall
- Histology Lab
- Genetic Lab
- Embryology
- Neuro-Anatomy
- Research labs
- Morphometry Lab

### **Department of Physiology**

#### **Equipment:**

- Digital Physiograph
- Treadmill
- Mosso's ergograph
- Perimeter
- Stethograph
- Spirometer
- pH meter
- Any other equipment:
- Exercise Physiology Kit

## **Department of Biochemistry**

### **Equipment:**

- Electrophoresis
- Chromatography
- Semi / auto analyzer
- Electrolyte analyzer
- ELISA
- PCR
- HPLC
- Centrifuges More Than or Equal to 8 Tubes
- Glucometers
- Urinometers
- Hot Air Oven
- Digital Colorimeters
- Microscopes
- Thermometer 0 – 250 OC
- Semi Auto Analyzer
- Boiling Water Bath
- Constant Temp Water Bath Tank Capacity (Temp Range 5 to 80OC)
- Digital pH Meter
- Fixed Volume Pipettes 1 mL, 0.5 ML, 0.2 mL, 0.1 mL, 0.02 ML
- Bottle Dispensers
- Variable and Fixed Volume Micro Auto Pipettes
- Vacutainer Tubes
- PCR Machine
- ABG Machine
- AUTO Analyser
- Chromatographic Unit for Paper & TLC
- Complete Electrophoresis (Paper, Page, Agarose) Apparatus With Power Supply
- Densitometer With Computer
- Vortex Mixer
- Incubator of 37 OC
- Fume Cup Boards
- Digital Analytical Balance Up to 200 G – 1G Increment
- Micro Analytical Balance
- Spectro Photometer
- PCR
- Elisa Reader & Washer
- Urine Dip Sticks for Glucose, Protein and Ketone Bodies
- ISE Analyzer
- Refrigerator – 400 L Capacity
- Ultra Centrifuge for DNA /RNA Extraction

- Refrigerated Ultra Centrifuge
- HPLC
- Bio Safety Cabinet
- Centrifuges
- Digital colorimeters
- Semi Auto Analyzer
- Fully Auto Analyzer
- Electrolyte Analyzer
- Clia Analyzer
- Computer and Printer

### **Department of Pharmacology**

#### **Equipment:**

- Stop watch
- Digital sphygmomanometer
- Critical Flicker Fusion Apparatus
- Manikins
- Choice Reaction Time Apparatus
- Hand Grip Dynamometer
- Weighing machine for small animals like rats and guinea-pig.
- Weighing Machines for big animals like dogs
- Dissection instruments and injection syringes
- X-blocks
- Hook grip rods
- Plain stand
- Apparatus for isolated rabbit intestine
- Frog Boards
- Jackson's Enterograph
- Oncometer kidney
- Stainless steel Trays 12"x15"x1"
- Thermometer , Soxhlet apparatus for distillation
- Microscopes ordinary
- Working tables with racks on each table
- Chemical balance
- Electronic balance
- Tambours Mareys
- Stop watches
- Oxygen Cylinders with Trolleys
- Carbon dioxide cylinder
- Operating lamps –Philips
- Electrodes ordinary and non polarisable
- Insulated wires, time markers, Mercury manometer, perfusion apparatus, Myograph lever, small pulley's upright stands and chemicals etc.

- Dispensing Balance with metric system weights
- Porcelain dishes
- Crucibles tongs
- Pestle and mortar
- Iron spatula
- Measuring glass (all sizes)
- Water bath, metal
- Miscellaneous: Chemicals, drugs, glass rods, funnels and filter paper etc.
- Electrocardiograph
- Spectrophotometer
- Antihistamine Chamber with manometer
- Stop clock
- Waterbath 12 hole electrically heated
- Bell Jars, Assorted
- Petri dishes, assorted
- Museum drugs specimen jars
- Centrifuge
- Cooling Centrifuge
- Binocular Microscope
- Hot air oven size
- Vacuum & Pressure Pump Cenco
- BP apparatus
- Distilled water apparatus
- Stethoscope
- Vortex mixer
- Metabolic Cages
- Glass tubing (length of 6 ft)
- Glass rods-assorted sizes of 6 ft
- Glass mortar & pestles
- Magnifying lens
- Postmortum instruments sets
- Filtering apparatus
- Dessicators
- Vacuum dessicator
- Respiration Pump
- Operation Tables
- Incubators
- Refrigerators
- Langendorff's Apparatus
- Standard power tables
- Canulas (Different types)
- Cautery Machines
- Varnishing tray
- Smoking burners

- Automatic electric recording drum
- Condons drop recorder
- Autoclave electric
- Waring blender
- Electronic Balance
- Audiogenic test chamber
- Air compressor
- Anaesthetic box
- Bench Kymograph
- B.P apparatus
- Chromatographic chamber
- Densitometer
- Fibrillator
- Hot plate cum magnetic stirrer
- Histometer
- Heating mantle
- Homogeniser
- Induction coil
- Jumping box
- Photographic document contact printer
- Physiograph
- Flame photometer
- Rotary flash evaporator
- Sterilizer
- Stimulator
- Students jar bath[ordinary]
- Students jar bath (Thermostatic)
- Sumeeth kitchen machine
- Telethermometer
- Voltage stabilizer
- Variable interrupter
- Vortex mixer
- Weighing machine 0-10kg(bottom pan)
- Weighing machine 0-20kg(bottom pan)
- Shock generator
- B.P. recorder UGO basile
- Auto clave
- Pill Tiles
- Suppository moulds, flame photometer
- Sliding microtome, Analgesiometer
- Actophotometer, Electroconvulsiometer, Rotarod, Plus maze, Circular maze, Open field, Inclined plane, Plethysmograph, Tail suspension, Passive avoidance apparatus, Jumping box, Cooks pole climbing apparatus, Hebb Willian maze, Continuous slow injector
- Computers 25

- LCD screen, Projector
- Wall mounted LCD
- Analgesiometer
- Actophotometer, Electroconvulsiometer, Rotarod, Plus maze, Circular maze, Open field, Inclined plane, Plethysmograph, Tail suspension, Passive avoidance apparatus, Jumping box, Cooks pole climbing apparatus, Hebb Willian maze, Continuous slow injector
- BSL-2 Laminar Air Flow
- -20° C freezer, 4° C fridge
- CO2 Incubator
- Circulating water bath
- Normal water bath
- Phase contrast microscope
- Centrifuge, CO2 cylinder
- liquid nitrogen can, laminar air flow, biosafety cabinet
- Critical Flicker Fusion Apparatus (Must)
- Choice Reaction Time Apparatus (Must)
- Hand Grip Dynamometer (Must)
- Hand Steadiness Tester (Optional)
- ECG Machine (Can be shared with other departments)
- Stethoscope (Must)
- B.P. instrument (Must)
- Weighing balance (Must)
- Spectrophotometer (Can be shared with other departments)
- HPLC (High Performance Liquid Chromatography) (Can be shared with other departments)
- Analgesiometer
- Mammalian Heart perfusion assembly
- Physiograph / Data Acquisition System
- Cook's pole climbing apparatus/alternative
- Digital pH meter
- Electro convulsiometer
- Photoactometer
- Rota rod
- Plethysmograph
- Plus maze, Circular maze, Open field, Inclined plane, Tail suspension, Passive avoidance apparatus, Jumping box, Hebb Willian maze

### **Department of Pathology**

#### **Equipment:**

- Microscope
- IF Microscope
- pT Link
- Bacteriological incubator
- Ventana Benchmarck IHC Autostainer
- Antigen retrieval cooker

- Refrigerators
- Centrifuge
- Spin win
- Spin win Vertex shekar
- Spin IX
- Alpha Imager EC
- Spectrophotometer
- Lamina flow unit
- Laminar Flow
- PCR Machine
- Electrophoresis Power Supply
- Weighing Machine
- pH meter
- Water bath
- Microtome
- Autoembedder
- Tissue flotation bath
- Cryostat
- Digital balance
- Deep Freezer
- Slide warmer
- Auto tissue processor
- Automatic tissue stainer
- Grossing station
- Manual Rotary microtome
- Automated Rotary microtome
- Cryostat
- Coverlipping workstation
- Automated tissue processor
- Ultrapure water
- Cabinet for slides
- Slide warmer
- Heater
- Magnetic Stirrer
- Magnetic Stirrer with hotplate
- Incubator
- Cytospin
- Centrifuge
- Cytocentrifuge
- Hot air oven
- Esco Airstream Claass II Type B2
- Troughs for staining
- Coplin Jars
- Hb electrophoresis minicap

- Cbc analysers (dxh beckman coulter 900)
- Cbc analysers (xn1500 sysmex)
- Coagulation analyser(cs 2000i )
- Coagulation analyser(cs 2400)
- Automated urine analyser (uc 3500)
- Automated urine analyser (uf 5000)
- Automated urine analyser(ud 10)
- Esr analyser (cube 30 touch)
- Coagulation analyser cn-3000
- Platelet aggregometer
- BD facs cantoii flowcytometer
- Cytocentrifuge cytospin 4
- Deep freezer( u410 premium)
- Centrifuge (flowcytometry)rotofix 32a
- QBC centrifuge (haematokrit 210)
- Spectrophotometer 104
- Cyclo mixer (cm-101plus)
- Centifuge( remi)
- Water bath
- Hot air oven
- Electronic balance
- Ph meter
- Electric stove- johnson
- Distilled water plant
- Refrigerator Electrolux - 275 litres
- Refrigerator whirlpool - 275 litres
- Refrigerator lg - 180 litres
- Refrigerator whirlpool - 286 litres
- Refrigerator elanpro
- Qbc paralens system
- Slide warmer
- Olympus ch20i
- Olympus cx21i
- Olympus cx33
- Olympus cx31
- Tissue Processor
- Grossing table
- Eye wash
- Cassette Printer
- Weighing scale
- Formaldehyde monitor
- IF Microscope
- pT Link
- Bacteriological incubator

- Ventana Benchmarck IHC Autostainer
- Antigen retrieval cooker
- Centrifuge
- Spin win
- Spin win Vertex shekar
- Spin IX
- Alpha Imager EC
- Spectrophotometer
- Lamina flow unit
- PCR Machine
- Electrophoresis
- pH meter
- Weighing machine
- Barcode scanner
- Hand dryer
- Autopsy table with sink
- Bone cutter (small)
- Scissors
- Forceps
- Binocular Microscopes
- Penta head Microscope/ Deca head
- Microscope camera
- Double headed Microscope (Binocular Research Microscope with photography facility)
- Automated Tissue Processor (Three different companies)
- Microtome
- Cryostat for Frozen Sections
- Microwave for IHC
- Cbc analysers (dxh beckman coulter 900) (Cell conuter)
- Cbc analysers (xn1500 sysmex) (Cell conuter)
- HPLC Machine (Hb Variant)
- Hb electrophoresis minicap
- Centrifuge / Cytospin
- PT and aPTT automated analyzer/coagulometer - Coagulation analyser(cs 2000i )
- Coagulation analyser(cs 2400)
- Flowcytometry for hematology Bd FACS Canto II flowcytometer
- IHC equipment
- Stainer – Ventana (With Antibodies)/ Multistainer workstation
- Microscope (in IHC Section)
- PT Link (antigen retrieval)
- Incubator
- Centrifuge / Cytospin
- Hot plate
- Magnetic stirrer
- Weighting balance (Digital)

- Autostainer
- Embedder (Paraffin embedder)
- Cold plate (Component of Embedder)
- Cover slipper (Component of Autostainer)
- Slide warmer
- Grossing station
- Ultra Pure Water
- Cabinet for slide & Block
- Biosafety cabinet
- Couplin jars (Staining jars for slides)
- Spinx vertex
- Refrigerator
- Deep Freezer
- Hot air oven
- Eyewash Station
- Multi Epitope Retrieval System (MERS) Antigen Retrieval cooker
- ALPHA IMAGER (Digital gel imaging)
- BONE AND MEAT CUTTING MACHINE
- Spin win
- Spin win Vertex shekar
- Spin IX
- Spectrophotometer
- Lamina flow unit Biosafety cabinet TBS
- Biosafety cabinet
- PCR Machine
- Electrophoresis
- Digital SLR
- Automated urine analyser (uc 3500)
- Automated urine analyser (uf 5000)
- Automated urine analyser(ud 10)
- Esr analyser (cube 30 touch)
- Coagulation analyser cn-3000
- Platelet aggregometer
- Cytocentrifuge cytospin 4
- Deep freezer( u410 premium)
- Centrifuge (flowcytometry)rotofix 32a
- QBC centrifuge (haematokrit 210)
- Spectrophotometer 104
- Cyclo mixer (cm-101plus)
- Centifuge( remi)
- Hot air oven
- Electronic balance
- Ph meter
- Electric stove- johnson

- Distilled water plant
- Refrigerator
- Qbc paralens system
- Slide warmer
- Formalin Meter
- Liquid Based Cytology
- Cassette Printer
- Barcode scanner
- Hand dryer
- Autopsy table with sink
- Autoclave
- Haemo Cytometers with red and white pipettes
- Urinometers
- Centrifuge tubes graduated
- Graduated cylinders for various capacities
- Pipettes of various sizes with disposal tips
- Reagent bottles (For students)
- Dropping bottles (For students)
- Reagents (For students)

### **Department of Microbiology**

#### **Equipment:**

- Centrifuge
- shaker incubator
- magnetic stirrer
- Milli-Q
- membrane filtration unit
- Spectrophotometer
- Molecular lab equipment (Thermocycler, Gel documentations system & Electrophoresis unit)
- Binocular Microscopes
- Fluorescence Microscope
- Inverted Microscope
- Multi-header Microscope
- BOD Incubator
- Bacterial incubator
- Hot air oven
- Autoclave
- Centrifuge
- Anoxomat /
- McIntosh Fildes Jar
- pH meter
- Electronic Weighing balance
- Candle Jar

- VDRL shaker/ Rotator
- ELISA Washer
- ELISA READER
- LCD screens
- Deep Freezer -200
- Deep Freezer -800
- Laminar flow Horizontal
- Laminar flow Vertical
- Biosafety cabinet BSL2
- Digital water bath
- Automated blood culture
- RT (Real Time)-PCR
- Conventional PCR
- GeneXpert
- CLIA (Chemiluminescence-Immunoassay)
- Any other equipment
- MALDI-TOF
- Vitek -2
- Euroimmun Analyser
- Anaerobic Workstation
- IF Sprinter
- Euro blot
- Micro Array Scanner
- Mini vidas
- Kryptor Compact plus
- BioFire Filmarray
- MGIT 960
- 3M™ Attest™ Auto-reader 290
- Biosafety Cabinet
- Incubator
- Automated Blood Culture System
- Water Bath
- Microscopes
- Vortex Mixer
- Microcentrifuge
- Loop Sterilizer
- Refrigerator
- EuroBlot One
- IF Sprinter
- Euroimmun Analyser
- Centrifuge
- Incubator
- VDRL Rotator
- Vitros 5600

- Minividas
- Biosafety cabinet
- Laminar airflow
- Thermal cycler
- Ultracentrifuge
- Deep Freezer (-200C)
- Biofire Fimarray
- Biosafety Cabinet
- BOD Incubator
- Biosafety Cabinet
- GeneXpert
- Cooling Centrifuge
- MGIT 960
- Slide Warmer
- GasPak
- Dark field microscope
- VDRL shaker
- Don Whitley Anaerobic Work Station
- Autoclave
- Hot Air Oven
- Inspissator
- Dry bath, 3M™ Attest™ Auto-reader 290
- DOTS - Fluorescence Microscope, Truenat real-time PCR
- ICTC – ELISA Reader & Washer

### **Department of Community Medicine**

#### **Equipment:**

- 20 computers with statistical packages, Internet browsing, Scanning facility, LCD facility
- The department is equipped with a large number of audio visual aids such as Overhead Projector, slide projector, LCD projector, Laptop, P.A. system, T.V. and V.C.R. Besides these there are a number of posters, flip charts, flash cards etc.

### **Department of Forensic Medicine**

#### **Equipment:**

- Wet Specimens
- Bones
- Weapons
- Poisons
- Charts/Diagrams
- Models
- Photographs
- X-rays
- Digital models

- Cold storage facility
- Autopsy Dissection table with running water facility
- Autopsy Examination Instrument Set
- Bone cutting Oscillating Saw
- Microscope student-type
- Binocular microscope
- Binocular microscope with extension for display and photography
- X-Ray Machines for Mortuary
- Ultra-sonography
- Dead Body Weighing Machine
- HPLC
- Gas Chromatography (GC)
- Gas Chromatography - Mass Spectroscopy [GC-MS]
- Anthropometric Set
- Refrigerator
- Deep Freezer
- Cold Storage for keeping body
- SLR Camera
- Video Camera
- Television
- Projectors
- Chromatography
- Almira and Bookshelf
- Baby weighing machine
- Organ weighing machine
- Tissue processor, Microtome,
- Tissue batch
- Centrifuge
- Polarizing microscope
- UV-Vis Spectrometer
- Stereomicroscope
- Rotary shaker
- Distillation chamber
- Comparison microscope
- Incubator
- Chemical balance
- Magnetic stirrer
- Ventilation
- Adequate Lighting facility for night post-mortem services
- Exhaust
- Running Water supply
- Drainage & waste disposal
- Fly proofing arrangement
- Cooling Chamber

- Cooling Cabinet
- Shadow less OT Light
- Air conditioning
- UV lamp
- X-ray room
- USG room

## **Department of General Medicine**

### **Equipment:**

- Multipara Monitors
- Upper GI endoscope
- lower GI endoscope(colonoscopy)
- Dialysis machines
- Ultrasonography with color Doppler and curvilinear probe, Linear probe, and Phased array probe(cardiac)
- Resuscitation kit
- Pulse Oximeters
- ECG
- Holter
- Crash cart
- Computerized PFT equipment
- Syringe pump
- Bronchoscope
- TMT
- Defibrillator
- Multifunction patient monitors
- Infusion pumps
- Mechanical ventilators
- Body warmers / alfa beds / Central Oxygen
- Pressure and suction points for EACH Bed
- Portable x ray
- ECHO-1
- USG
- ECG machines
- Multifunction patient monitors
- Infusion pumps
- B.P. Apparatus (Mercury containing instruments should be replaced by digital or other suitable alternatives) 64
- Ophthalmoscope 16
- Lumbar puncture needles (disposable) as required
- Pleural biopsy needles (disposable) as required
- Liver biopsy needles (disposable) as required
- Kidney biopsy needles (disposable)
- Bone marrow biopsy needles (disposable)

- Bone marrow aspiration needles (disposable)
- X-ray viewing box / PAX viewer / Desktop 60
- Flexible Video End viewing Oesophago-Gastroduodenoscope (optional)
- Flexible Video Colonoscope (optional)
- Flexible Video Side viewing Gastroduodenoscope for ERCP (optional)
- Proctoscope 14
- Fiber optic bronchoscope (May be shared with TB&CD) 2
- Spirometer 8
- Bed side cardiac monitors 30
- Central Cardiac monitor Console 1
- Defibrillator - 1 per unit + 1 each for MICU,ICCU and 1 for casualty ward
- Non-invasive B.P. Apparatus 24
- Pulse oximeter 30
- Equipment for Cardiac pacing 1
- Ambu bag 24
- Laryngoscope 10
- ECG machine 8
- Echocardiography machine 1 portable unit: 2
- Tread mill test machine 1
- Hemodialysis machine 7
- Peritoneal dialysis catheters: as required
- Arterial blood gas analyzer : 2
- Glucometer 20
- EMG and nerve conduction velocity machine 1
- Fine needle aspiration needle : (disposable) as required
- Aspiration needle : as required
- Endotracheal tubes : as required
- Invasive Mechanical Ventilator : 15
- Non Invasive mechanical ventilator (Maybe shared with TB and CD) – 20
- Nebulizer – available – 43
- Portable Suction Machine (2 with each ward, 1forMICU, 1 for ICCU, 1 for casualty ward, 1 for OPD) / Central suction points for all ICU / HDU beds 16
- Infusion pumps (1 with each bed of MICU and ICCU plus 4 / unit) 60
- Weighing scale 2/unit + 2 in OPD 20
- Multimedia Projector with Screen 2
- Patient Examination table 60
- Rubber Hammer 10
- Computer 1/unit, 1/MICU, 1/ICCU, 1/OPD : 60
- Torch 60
- Emergency Lights 15
- Upper GI endoscope (Optional) 2
- Sigmoidoscope (optional) 2
- Colonoscope (optional) 2
- Haemocytometer 8

- Light Microscope 5
- Haemoglobinometer 4
- Urinometer 2

### **Department of General Surgery**

#### **Equipment:**

- Upper GI Endoscope set
- Lower GI Endoscope set
- Laparoscopy equipment set (write total no of functioning sets available with the Department).
- Ultrasonic Dissector/ Coagulator
- Vessel Sealing Equipment. (Ligasure)
- Ultrasonography machine with Doppler facility linear, convex and cardiac probe and puncture guide
- Laparoscopy Trainers
- Endo venous Radiofrequency ablation Machine
- Endo LASER
- Handheld Doppler sets in OPD & Ward
- Cardiac Monitor – 8
- Infusion Pump – 8
- Syringe Infusion Pump – 5
- Defibrillator – 1
- Portable pulse oximeter - 1

### **Department of Obstetrics and Gynaecology**

#### **Equipment:**

- Multiparameter Monitors
- Pulse Oximeters
- Infusion pump
- CTG Machines
- No of USG machines with Doppler facility and TV probe and convex probe
- Video - Colposcope
- Laparoscopy set
- Ultrasonic Dissector/ Coagulator
- Vessel Sealing Equipment.
- Hysteroscope (diagnostic and operative)
- Cryo/LEEP Cautery
- Harmonic
- Operation theatres
- Delivery tables
- Eclampsia room
- Multipara monitors
- CTG and infusion pumps
- ICU facilities

- NICU facilities

## **Department of Paediatrics**

### **Equipment:**

- Little baby QCPR LIGHT-Laerdal
- Pediatric Intubation Trainer Torso Laerdal, Little junior QCPR (L)-Laerdal, Pediatric Multi-Venous IV Training Arm Kit (L)-Laerdal
- NASOGASTRIC FEEDING AND TRACHEAL INTUBATION SIMULATOR(THE HUNGRY MANIKIN ER: SB38896)
- INTRA OCIOUS MANNEQUIN (INTRAOSSEOUS INFUSION SIMULATOR: In Stock
- Paediatric Bone marrow Aspiration mannequin for UG skill station-GENERAL DOCTOR
- Intradermal intramuscular subcutaneous injection model (ZX-NS6018)
- Deluxe Child CRiSis™ Manikin, with Advanced Airway (1 NO)
- Pediatric Lumbar Puncture Simulator
- ABG Equipment
- Phototherapy Units (CFL & LED)
- Parenteral nutrition Equipment
- Neonatal ventilator with high frequency ventilation
- Neonatal ventilator without high frequency ventilation
- Inhaled NO machine
- Therapeutic hypothermia machine
- EEG machine
- Oxygen blenders
- T piece resuscitator
- OAE/BERA machine
- Laminar Flow in ICU
- CPAP machine
- Multipara Monitors
- Echo – color Doppler
- Resuscitation kit
- Radiant warmer
- Pulse Oximeters
- ECG machine
- Crash cart trollies
- Computerized PFT equipment
- Syringe pump
- USG
- Defibrillator
- Transport Incubator
- Computerized weighing scale
- HHHFNC
- Transcutaneous bilirubinometer

- Fiber optic light source
- Video laryngoscope
- Dialyser
- aEEG – 2

### **Department of Orthopaedics**

#### **Equipment:**

- Power drill
- Tendon suturing units
- Sawab 1 modules
- LCP 3.5 & 4.5 sets one each
- Nailing set
- Pedicle Screw set
- Interactive Projector and screen
- External Fixator Set
- Ilizarov Fixator Set
- Electric and Battery Operated Power Drill
- Arthroscopy set
- Image Intensifier
- Hip Arthroplasty set
- Knee Arthroplasty set
- Fracture Fixation set
- Spine surgery set
- DHS set
- Interlocking nail set
- Plaster Cutters
- Any other equipment
- High speed burr
- Harmonic bone scalpel

### **Department of Dermatology, Venereology and Leprosy**

#### **Equipment:**

- Biopsy punches
- Hyfreator/electro-surgical instrument
- Liquid nitrogen cryo
- Chemical Peels
- PUVA Chamber (total body)
- NBUVB Chamber
- Laser for hair reduction
- Laser for scar revision
- Laser for pigment removal
- Pulse Oximeters
- ECG

- Crash cart
- Centrifuge Machine
- pH meter
- Digital weighing balance
- Rotospin
- Vortex Shaker
- Dermatoscope
- Incubator
- Microdermabrasion
- Iontophoresis machine
- Facilities for examining smears for bacteria, fungi, mycobacteria and acantholytic cells:
- Light microscope
- Giemsa stain As required
- KOH smear As required
- ZN staining
- Gram stain
- Wood's lamp
- Multimedia Projector with Screen
- Radio frequency
- Dermabrasion
- Refrigerator
- UVA Hand / Foot Unit - Daavlin
- Partial Irradiation units [PUVA 180, PUVA 200] [Waldmann]
- Narrow Band Hand / Foot Unit
- Narrow Band Target Unit (Davlin)
- Waldmann Hand held NBUVB
- Cryo stat
- Deep Freezer ( – 40degree )
- Fluorescence Microscope
- Olympus BX 53 Led Upright Bright Field Microscope ( Model : BX53 ) With DP23 Camera & Software
- EXCIPLEX 308 nm

## **Department of Psychiatry**

### **Equipment:**

- MagVenture MagPro X100 with MagOption
- Soterix 1X1 tES CET
- Soterix 4X1 HD-tES CET
- Soterix 1X1 tDCS
- CED 1902
- CED 1401
- HUMBUG
- Channel Noise Eliminator
- Nihon Kohden EEG-9100K

- Meta Quest 3S
- Baseline Hand Dynamometer
- MIR Spirolab Spirometer
- Smokerylzer Micro CO Device
- Biofeedback RMS Relax 701
- ECT Machines
- Equipment for Psychological evaluation
- Anaesthesia machine

## **Department of Anaesthesiology**

### **Equipment:**

- Computer
- Printer
- Fiber Optic Bronchoscope
- HFNC
- Video laryngoscope
- Adult Mannequin for BLS training
- Peripheral Nerve Block Ultrasound Training Model
- Library Reading Table
- Vascular Access Trainer Model
- Ambuscope
- Operating Tables
- Anesthesia workstation per operating table
- Multiparameter Monitors (8 parameters) per operating table
- Laryngoscope (Macintosh)
- Flexible Bronchoscope
- (Size and length)
- Second generation Supraglottic Airway devices
- Video-laryngoscope
- Bougies/Stylets/Airway exchange catheters
- Resuscitation equipment/Crash cart
- Defibrillators
- Ultrasound machine with 3 probes (Linear, curvilinear, and phased array)
- Patient warming devices
- Syringe pumps
- Fluid warmer
- ICU Beds: Mechanically or electronically operated along with air mattress
- ICU Ventilators integrated with humidifier
- Multiparameter (8 parameters) monitor: ECG, NIBP, SpO2, IBP-1, IBP-2, ETCO2, Temp-1, Temp-2
- Syringe infusion pumps
- Patient warming device
- Ultrasound machine color Doppler and echocardiogram facility with 3 probes (curvilinear, linear, and phased array)

- Defibrillator
- Patient warming device (At least 1 per 2 ICU beds)
- Airway/Crash cart
- Oxygen cylinder (B-type) with pressure regulator
- Patient transport trolley with 3 parameters monitors
- Arterial Blood Gas Analyzer
- Flexible Bronchoscope
- Facility for bedside Renal Replacement Therapy

## **Department of Radiation Oncology**

### **Equipment:**

- Medical Linear Accelerator
- Equipment for Radio-surgery
- IMRT, IGRT, SBRT-same LINAC mentioned before
- Elekta Versa HD( Photons: 6MV,10MV,15MV,6MFFF,10MVFFF) with Apex
- MicroMLC tertiary treatment head for SRS/SBRT
- Agility Treatment Head for IMRT,IGRT
- Active Breathing Co-Ordinator(ABC) for IGRT
- ZiFix Abdominal/Thoracic Motion Control System- abdominal compression belt
- Treatment planning systems: Three
- XVI: CBCT Patient position verification system
- I View GT- EPID- position verification system 2D
- CT simulator (shared with Radiodiagnosis and Imaging) Philips Brilliance Bigbore 16( 16 slice )
- SOMATOM go.up SEIMENS, 32 SLICE, BORE 70CM, SFOV- 50CM. RECON FOV-70CM
- RFA
- RW3 Phantom
- 2D array detector
- 4D Octavius
- Equipment for Brachytherapy
- For Intracavitary: Applicators for gynecological cancers: Fletcher flexible geometry- 1, Fletcher rigid geometry- 1, Ring 1 (MR applicator, Vaginal cylinder), tubes for intraluminal brachytherapy (Esophageal, bronchial and biliary)
- For Interstitial: Transperineal template (Kelowna), Interstitial tubes for free hand implant, Ring for interstitial gynecology, Plates for Breast brachytherapy
- For surface moulds: Interstitial tubes.
- For facilities for pre-operative radiotherapy- the teletherapy unit is mentioned above.
- Equipment for Treatment Planning:
- Monaco 5.11 for 3DCRT, IMRT, IGRT, SRS/SRT/SBRT for External Beam Therapy and PETCT fusion.
- Brachy Vision 15 for Brachytherapy planning and TCS for treatment.
- Oncentra 3.0: For fusion of MR and CT.
- Facility for patient immobilization:
- Half Body Vaclocks:07
- Full Body Vacloc-01
- Thermoplastic sheets for all sites

- Breast Board: Q fix
- Wing board
- Knee rest: 2
- SRS Localiser frame: 1
- SRS mouth bite system:
- BodyFix (01) for preparing VacLoc
- All in one Board (01)
- ZiFix Abdominal/Thoracic Motion Control System – abdominal compression belt
- Active Breathing Co-Ordinator(ABC) for SBRT
- Facility for casting individualized shielding blocks:
- Electron Mold preparation
- Thermocol cutter for Electron field shaping:01
- Electron mold system for 6x6,10x10,14x14 and 20x20 applicators.
- Facility for tissue compensation:
- Dental Wax bolus
- Equipment for the department of medical physics:
- Facilities for Dosimetry Equipment (furnish details):
- PTW Water phantom dosimetry equipment with Electrometer and ion chambers for relative dosimetry
- Electrometer:01
- Ion chamber: 03
- Diode detectors: 02
- Diamond detector:01
- PTW Water phantom dosimetry equipment with Electrometer ion chambers for reference dosimetry system
- Dose 1 Electrometer with FC65 G chamber :01,01
- PTW Unidose Electrometer:01
- Thimble Chamber:02
- Status: Working
- Phantom for Patient specific QA
- RW3 phantom:01
- OCTAVIOUS Detector 729:01
- Facilities for Radiation Monitoring:
- Gamma Area Monitor: 01
- GM Survey Meter: Exposure measurement of Gamma rays and contamination: 01(Ranger)
- Ion survey meter;01(470A):01
- Facilities for Radiation Protection:
- PPE: 01
- TLD-Faculty and Trainees
- Facilities for mould room equipment:
- Hot water bath:01
- Vacklok Vacuum device
- Status: Working
- Electron Mold preparation

- Thermocol cutter for Electron field shaping:01
- Electron mold system for 6x6,10x10,14x14 and 20x20 applicators

## **Department of Radiodiagnosis**

### **Equipment:**

- X-Ray Machines- Static
  - I. Philips, DR
  - II. Philips, DDR3
  - III. Allengers MARS 50
  - IV. DR GEM corporate
  - V. Allengers – MARS 50+
- X-Ray Machines- Portable
  - I. Siemens, Multimobile 2.5
  - II. GE Brivo XR115
  - III. SKAN RAY
  - IV. BPL Medical Technologies
- X-Ray Machines- TV/Imaging facility  
Replaced with Fluroscopy unit -Allengers MARS 80
- CT Scan (Mention slices, year of manufacturing with other specifications)
  - I. Philips Incisive 128 slice, 31/05/2018
  - II. Philips Big Bore 16 slice- 1-Jul-2013
- MRI (Mention Tesla, year of manufacture with other specifications)
  - I. United Imaging, uMR780– 3Tesla, 02/02/2023
  - II. PHILIPS ACHIEVA, 1.5 Tesla-25-07-2013
  - III. Philips -MR5300
- USG – GREY SCALE (MENTION PROBES AVAILABLE WITH EACH MACHINE)
  - I. PHILIPS EPIQ 5G ELITE, PROBES LINEAR-eL18-4, CONVEX-C5-1, LINEAR (ACOUSTIC LENS) L15-7IO, TRANSVAGINAL- C10-3V, MICRO CONVEX MC7-2
  - II. PHILIPS EPIQ 5G, PROBES- LINEAR-L18-5, CONVEX-C5-1, LINEAR-L12-3, MICRO CONVEX-C8-5, LINEAR-L12-5S0, L12-5S0 BELONGS TO AFFINITI 70
  - III. SAMSUNG V7 – PROBES-ECHOPA1-5A, TV/TR ENDOCAVITY -EA2-11AVD, CONVEX -CA1-7SD, LINEAR-LA2-14A
- SAMSUNG HS70A-PROBES -CONVEX-CA1-7A, LINEAR-LA2-9A, TV/TR ENDOCAVITYVVR5-9
- USG – Colour Doppler (mention probes available with each machine)
  - I. PHILIPS AFFINITY 50G, Probes CONVEX C6-2, LINEAR L12-4, CONVEX C8-5
  - II. PHILIPS AFFINITY 70G, CONVEC8-5, LINEAR L18-5, LINEAR L12-3, CONVEX C5-1, LINEARNEL18-4
- Mammography- Metaltronica, Helianthus DBT
- DSA Allura Xper FD 20
- Digital X-Ray storage system (PACS system)
  - I. PHILIPS HD15-PROBES -LINEAR L12-5, CONVEX C5-2
  - II. PHILIPS CX50- PROBES CONVEXC5-1, LINEAR L12-3, LINEAR L12-3

## **Department of Respiratory Medicine**

### **Equipment:**

- Spirometer-02, DLCO machine-01, FeNO machine-01, Peak flow meters-20, Nebulizers-02.
- Allergy test kit-01, Crash cart-01, Body Plethysmography Unit (Body Box) with PFT and DLCO workstation-01, Impulse Oscillometry System-01
- Fiberoptic video bronchoscope-02, portable battery operated fiberoptic bronchoscope –01, Multipara monitor-01, Cryobiopsy probe-01
- Rigid thoracoscope with video processor-01, Multipara monitor-01
- Level -1 Polysomnography- Somnomedics-01
- Toshiba ultrasound machine-01
- 09 Ventilators, 10 monitors, 10 Syringe pumps, 04 Nebulizers
- BIPAP:06, Invasive:03
- Multipara Monitors
- Pulse Oximeters
- ECG
- Resuscitation kit
- MDR treatment facilities
- Nebulizers
- Ventilators / non
- invasive ventilation
- Computerized PFT equipment/ / PEFR
- Crash cart
- DLCO
- Syringe pump
- Fibreoptic Bronchoscope
- Other routine use equipment
- Defibrillator
- USG
- Any other equipment:
- Oxygen flow meter
- Thoracoscope
- Cryoprobe
- Polysomnography
- FeNo-fractional exhaled Nitric oxide
- Rigid Bronchoscope
- Portable fiber optic bronchoscope
- Body Plethysmography System / Body Box
- Impulse Oscillometry System (IOS)

## **Department of Hospital Administration**

### **Equipment:**

- Printers
- Scanners
- LED Projectors
- Camera

## **Department of Immuno Haematology and Blood Transfusion**

### **Equipment:**

- PRP Centrifuge
- ROTEM Machine
- Donor Couch
- Blood Collection Monitor
- Tube sealer
- ELECTRONIC WEIGHING SCALE
- BP Apartus
- Stethoscope
- Computer system
- BP Apartus
- Stethoscope
- MISPA HbX AGAPPE
- Medical Care Cot
- CHAIRS, EXAMINATION/TREATMENT, DENTISTRY
- BLOOD WARMER
- CELL SEPARATOR-Com Tech, Amicus & Spectra Optia
- ORTHO-VISSION
- TUBE SEALER
- CENTRIFUGE TABLETOP
- Platelet Agitator
- Sterile Tubing Welder
- CRYO BATH
- Thrombelastograph Analyzer
- Balance Electronic
- BLOOD BANK REFRIGERATOR
- DEEP FREEZER
- ID Centrifuge 12 S II
- ID Incubator 37 S I
- ORTHO-VISSION Max
- IH-500 System
- Platelet Crossmatching Capture workstation
- Balance Electronic
- Platelet Agitator
- Centrifuge (Refrigerated)Floor

- TUBE SEALER
- CENTRIFUGE TABLETOP 144134
- BIOLOGICAL SAFETY CABINET (LAMINAR AIR FLOW)
- WATER BATH
- Automated Component Extractor
- BLOOD BANK REFRIGERATOR
- DEEP FREEZER
- WALK-IN-COOLER
- Gel (Imaging) System
- Bio Safety Cabinet-PCR Workstation & Micro centrifuge
- Plasma Photometer
- MAGNETIC STIRRER
- PCR Machine
- Electrophoresis Tank
- Plasma Photometer
- LCD PROJECTOR Sl no:0640070FO
- Smart TV - LED – Samsung
- PH- METER PH-700
- CYCLO MIXER
- PRP Ultra Centrifuge
- MAGNETIC STIRRER
- Coagulometer Start
- COBAS TAGMAN (NAT)
- COBAS AMPLIPREP (NAT)
- HAMILTON (NAT)
- Domestic Refrigerator
- CENTRIFUGE TABLETOP
- ELISA PROCESSOR
- Elisa Washer
- Incubator
- V D R L Rotator
- Elisa Reader
- Microscope Laboratory
- VITROS ECI (CHEMILUMINESCENCE)

### **Department of Ophthalmology**

#### **Equipment:**

- Cataract
  - I. Operating Microscope
  - II. Ultrasound A Scan
  - III. Ultrasound B Scan
  - IV. Keratometer
  - V. Specular microscope
  - VI. Laser Interferometer

- VII. IOL Master
- VIII. Phaco emulsification machine
  - Cornea and Refractive surgery
    - I. Pachymeter
    - II. Contrast sensitivity
    - III. Contrast sensitivity chart
    - IV. Orbscan or Pentacam
    - V. Videokeratography
    - VI. Facility for amniotic membrane
    - VII. harvesting and storage (Deep
    - VIII. freezer at -80°C)
    - IX. LASIK Laser
    - X. Lenses for laser
    - XI. C3R
  - Vitreo-retina& Uvea
    - I. Operating Microscope with Biome and re inverter
    - II. Indirect Ophthalmoscopes 6
    - III. Fundus Camera 2
    - IV. Fundus fluorescein angiography (FFA) /ICG atleast 1
    - V. Optical Coherence Tomography (OCT) 1
    - VI. Electroretinogram (ERG)-FF+MF 1
    - VII. Multifocal ERG (MfERG) 1
    - VIII. Micro-perimetry 1
    - IX. Vitrectomy machines 2
    - X. Endo laser 2
    - XI. Nd YAG laser for capsulotomy 1
    - XII. Red laser 1
    - XIII. Lenses for laser
    - XIV. Laser Indirect Ophthalmoscopy 1
    - XV. Cryophotocoagulation 1
    - XVI. Surgical sets required for Retinal Surgery
  - Glaucoma
    - I. Gonioscope (Goldmann1 or 2 mirror)
    - II. Non-contact tonometer
    - III. Applanation tonometer in all slit lamps
    - IV. Pachymetry
    - V. Perkins tonometer/Tonopen
    - VI. Standard Automated perimeter with normative database and progression analysis software
    - VII. Fundus camera
  - Pediatric Ophthalmology and Neuro-ophthalmology
    - I. Indirect Ophthalmoscope
    - II. Synoptophore
    - III. Pediatric Refraction Set
    - IV. Red green goggles
    - V. Hess or Lees chart
    - VI. Teller's / Cardiff Visual Acuity Cards

- VII. Prism Bar
- VIII. Randot/ TNO test
- IX. Maddox wing/ Maddox rod
- X. Electroretinogram (ERG)
- XI. VER
- Low Vision
  - I. Indirect Ophthalmoscope
  - II. Low vision assessment kit
  - III. Low vision aids
    - a. Filter lenses that control glare
    - b. Telescopes /magnifiers/Adaptive devices
    - c. Electronic Aids including CCTV
- Community Ophthalmology
  - I. Provision of transport facilities for the patients to base hospital for surgeries.
  - II. Equipment and other logistics for conducting outreach comprehensive eye screening camp in the remote and underserved areas.
  - III. Facilities for conducting Community based research, surveys.
  - IV. Tele-ophthalmology setup
- HFA 840- Functional
- Optopol PTS-2000
- Zeiss Angioplex – Functional
- Not available
- Zeiss Clarus 700
- Not available
- Ultrasound with UBM Marvel II with AB-Scanner with New software
- IOL Master 500
- TOPCON KR8900
- TOPCON KR-800
- Zeiss Clarus 700, Slit lamp anterior segment photography Haag Streit BQ900 EyeSuite

### **Department of Oto Rhino Laryngology**

#### **Equipment:**

- Details of ENT general examination equipment in OPD :
  - I. BP apparatus – 1
  - II. BP apparatus digital -1
  - III. Pulse oximeter -1
  - IV. DNE Instrument set – 2
  - V. Emergency crash cart -1
  - VI. IV set -1
  - VII. Oxygen Cylinder – 1
  - VIII. Endovision karl storz telecom -1
  - IX. Light source – 11
  - X. Bull eye lamp -4
  - XI. Ahuja Audio visual system with accessories – 1

- XII. Suction apparatus – 5
- XIII. Telescope Hopkins II O degree – 4mm – 3
- XIV. Telescope Hopkins 30 degree – 1
- XV. ENT workstation – 7
- XVI. Microscope operating system (Zeiss) - 1
- XVII. Monitor color with ACE – 1
- XVIII. Video system center ( Olympus) endoscopic HD camera – 1
- XIX. Endoscope – O degree & 30 degree – 1 each
- XX. EUM Instrument set – 3
- XXI. VDS Instrument set – 1
- XXII. Tracheostomy care set – 1
- XXIII. Dressing pack – 1
- XXIV. VNG machine – 1
- XXV. Flexible scopy – 3
- XXVI. Hopkins 30 degree – 1
- XXVII. Hopkins 40 degree – 1
- XXVIII. 90 degree stroboscope -1
- XXIX. 70 degree stroboscope – 1
- XXX. Stroboscope set – 1
- XXXI. FEES Set – 1

- Details of endoscopy set up in OPD (rigid/flexible/both):

- I. Telescope Hopkins II O degree – 4mm – 3
- II. Telescope Hopkins 30 degree – 1
- III. HD camera – 1
- IV. Endoscope – O degree & 30 degree – 1 each
- V. Flexible scopy – 3
- VI. Hopkins 30 degree – 1
- VII. Hopkins 40 degree – 1
- VIII. 90 degree stroboscope -1
- IX. 70 degree stroboscope – 1
- Operating microscopes 2
- Micro-motor drills with foot control 3
- Hand piece (straight and contrangular) 4
- Temporal bone holders 17
- Suction apparatus 2
- Micro-surgical instruments 3 sets
- Dissection table with wash basin 2 stations
- Refrigerator 1
- Endoscope camera with camera control unit 2
- TV monitor 1
- Nasal endoscopes 300 and 00 with monitor, camera and light source 2 sets each
- Head and neck dissection instrument sets 10
- Thyroplasty instruments 1

- Operating Microscope with teaching aid
- High speed drill in operation theatre
- Flexible fiberoptic bronchoscope/ nasopharyngolaryngoscope
- Rigid Pediatric Bronchoscopy set
- Rigid Esophagoscopy set
- Micro laryngoscopy set
- Sinus endoscopy set
- Mastoidectomy set
- Tympanoplasty set
- Stapes surgery set
- Direct laryngoscopy set
- Septoplasty set
- Tonsillectomy set
- Maxillectomy set
- Microdebrider for sinus surgeries
- Coblator System
- Digital mono & bipolar cautery
- Nerve stimulator/ monitor
- HD digital camera with recording system
- OAE
- BERA
- Impedance Audiometer
- Pure tone audiometer
- Sleep Lab (in the Institute)
- Simulators for ear, nose surgeries
- CO2 Laser
- Other Lasers
- Harmonic scalpel
- Stroboscope/ High Speed camera
- Suction Machine
- Narrow Band Imaging
- Any other equipment
- Skeeter
- Balloon Sinus catheter
- Doppler
- Cochlear Implant Instrument set
- Microvascular Instrument
- Operating Loop
- DCR Set
- Tracheostomy set
- Rhinoplasty set
- Head & Neck Surgery Set
- Nasal endoscopy 0 degree
- Nasal endoscopy Paediatric (2-7mm) degree

- Nasal endoscopy 30 degree
- Nasal endoscopy 70 degree
- Nasal endoscopy 90 degree

## **Department of Emergency Medicine**

### **Equipment:**

- Ventilators
- Defibrillators
- Fully equipped disaster trolleys
- Multipara monitors
- Dedicated portable x-ray machine:
- Ultrasonography with color Doppler and curvilinear probe, Linear probe, and Phased array probe(cardiac)
- ABG machine
- ECG
- Rigid & Flexible Bronchoscope
- Neurosurgical services in the Hospital
- Emergency OTs – Major
- Emergency OTs – Minor
- Portable X-Ray Machine
- Emergency laboratory
- ABG machine
- ECG
- USG with color Doppler and curvilinear probe, Linear probe, and Phased array probe (cardiac)
- Multipara monitors in EM
- ICU ventilators in EM
- Transport ventilators in EM
- Echo-Cardiography
- Rigid & Flexible Bronchoscopy
- BLS ambulances
- ACLS ambulances
- PAC
- Pre-operative beds
- Post-operative beds
- Emergency services for OBG patients
- Triage
- Medico-legal services
- Police outpost near ED

## **Department of Palliative Medicine**

### **Equipment:**

- Oxygen central supply/concentrators
- Patient controlled analgesia - CADD pump
- Infusion pumps
- Ophthalmoscope and otoscopes
- Air beds
- Water beds
- Nebulizer machines
- Crash cart
- Suction machines
- Vital signs monitoring equipment
- Wheelchairs/stretchers with oxygen
- Patient beds
- Pain management devices- Such as TENS units / Scrambler or heat therapy devices.
- Other routine use equipment – Assistive devices, patient transferring devices
- Point of Care Ultrasound.
- Non-invasive ventilation devices- CPAP/BiPAP/access to CPAP/BiPAP
- Electrocardiogram machines/access for ECG
- Information technology

## **Department of Medical Genetics**

### **Equipment:**

- Thermocycler (7)
- Real-time qPCR machine (1)
- Gel Electrophoresis unit (4)
- Western blot apparatus (2)
- Sanger sequencer/ Genetic analyzer (1)
- Spectrophotometer (1)
- Nanodrop (1)
- UV transilluminator (2)
- Lab centrifuge (2)
- Vertical Laminar Flow (4)
- Microcentrifuge (4)
- Vortex mixer (3)
- Deep freezer (-20°C) (6)
- Refrigerator (1)
- Cold centrifuge (2)
- -80° Freezer (4)
- Digital PCR system
- MinION nanopore
- SpectraMaxiD3 Multi mode Microplate reader
- Dry bath incubator

- Deep freezer -20°C
- Refrigerator
- Vortex shaker
- ROTOSPINTM –rotary mixer
- Microwave oven
- Refrigerated Centrifuge
- Autoclave
- Centrifuge minispin
- pH Meter
- Water bath
- Digital gel documentation system
- LG/DELL work station with Olympus inverted fluorescence microscope
- Cryo can
- CO2 incubator + 5 gas cylinders
- Microscope
- Biosafety level 2 cabinet
- Weighing balance
- Hot air oven
- Water bath
- Ultra Pure Water System
- Cold Chamber with Power Sockets

### **Department of Critical Care Medicine**

#### **Equipment:**

- ICU Beds: Mechanically or electronically operated along with air mattress
- 12-lead ECG machine
- Multiparameter (8 parameters) monitor: ECG, NIBP, SpO2, IBP-1, IBP-2, ETCO2, Temp-1, Temp-2
- Invasive vascular pressures equipment
- invasive ventilation facilities
- Non-invasive ventilation facilities
- Crash cart: Crash intubation equipment, Crash resuscitation equipment
- ICU Ventilators
- Laryngoscope set
- PA catheter for cardiac output
- Flexible Bronchoscope
- Second generation Supraglottic Airway devices
- Video-laryngoscope
- Bougies/Stylets/Airway exchange catheters
- Defibrillators
- Ultrasound machine with 3 probes (Linear, curvilinear, and phased array)
- Patient warming devices
- Bed-side availability of various modalities of renal replacement therapy like haemodialysis and peritoneal dialysis

- fibreoptic bronchoscopy
- Temporary pacemakers available in ICU
- Volumetric/syringe pumps in adequate quantities available in ICU
- Portable X-ray
- Ultrasound machine with Echocardiography equipment
- Fluoroscopy
- CT/MRI/Cardiac Cath Lab facilities in hospital
- 24-hour Stat/Emergency Lab services including arterial blood gas in hospital
- 24-hour pharmacy support
- Availability of Point-of-care Immunoanalyzer (Procalcitonin, NT-ProBNP, IL6, CRP, Troponin etc.)

### **Department of Cardiology**

#### **Equipment:**

- CATH LAB SYSTEM- PHILIPS AZURION 7M20.- 1
- ACT ANALYZER- HEMOCRON -1
- DEFEBRILATOR- PHILIPS-1
- PHILIPS MONITOR-MP20 WITH IBP-2
- SYRINGE PUMP -3
- CRASH CART-1
- LARYNGOSCOPE ADULT-1
- ANAESTATION VENTILATOR-1
- PRESSURE INJECTOR-1
- CATH LAB SYSTEM- PHILIPS ALLURA CLARITY FD10.-1
- DEFEBRILATOR- PHILIPS-1
- PHILIPS MONITOR-MP20 WITH IBP-1
- SYRINGE PUMP -3
- CRASH CART-1
- LARYNGOSCOPE ADULT-1
- PRESSURE INJECTOR- ANGIOMAT-1
- ACT MACHINE MINI HALINA-1
- ANAESTATION VENTILATOR-1
- TEMPORARY PACEMAKER – 4
- ULTRASONIC CLEANING SYSTEM -1
- INTRA AORTIC BALLOON PUMP- 1
- AUTO CAT ARROW-2
- SEALING MACHINE -1
- PHILIPS MONITOR-MP20 WITH IBP-(DAY CARE-4)
- SUCTION APPARATUS-2
- FOGGING MACHINE- MICROMAT-1
- CAUTERY MACHINE- ELECTROMADZIN-1
- INTRA AORTIC BALLOON PUMP MAQUET CARDIOSAV-1
- DEFEBRILATOR-1
- ROTABLATOR CONSOLE BOSTON SCIENTIFIC-1

- VACCUM CLEANER-FORBES-1
- SEALING MACHINE DIGITAL MODEL-1
- LARYNGOSCOPE-VIDEO-1
- TEMPORARY PACEMAKER-METRONIC-3
- IVUS MACHINE PHILIPS- VOLCANO -1
- ICCU Beds: Mechanically or electronically operated along with air mattress
- ICCU Ventilators integrated with humidifier
- Multiparameter (8 parameters) monitor: ECG, NIBP, SpO2, IBP-1, IBP-2, ETCO2, Temp-1, Temp-2
- No. of dedicated outlets
- (There should be two oxygen, one medical air and two vacuum outlets per bed)
- Syringe infusion pumps (should be at least 3 per ICU bed)
- Patient warming device (At least 1 per 2 ICU beds)
- Ultrasound machine color Doppler and echocardiogram facility with 3 probes (curvilinear, linear, and phased array)
- Defibrillator
- Patient warming device (At least 1 per 2 ICU beds)
- Airway/Crash cart
- Oxygen cylinder (B-type) with pressure regulator
- Patient transport trolley with 3 parameters monitor
- Arterial Blood Gas Analyzer
- Flexible Bronchoscope
- Facility for bedside Renal Replacement Therapy
- ECG Machines
- Treadmills
- Echo Machines
- Holter
- HUTT Test
- EPS/RFA Equipment
- Portable Xray Machine
- Computerized PFT
- Defibrillators
- Cath Labs
- Crash Cart
- Ventilators
- Pulse oximeters
- Syringe pump
- Temporary Pacemaker
- IABP
- Cautery Machine
- Rota Oblation
- IVUS System
- FFR
- OCT

## **Department of Neurology**

### **Equipment:**

- EEG - 3
- VEEG - 3
- Spirometer - 1
- Cortical Stimulator - 1
- Sudoscan – 1
- ENMG/EP Studies – 4
- Ventilators – 4
- ICU Monitors – 4
- DVT Pumps – 4
- Syringe Pump – 4

## **Department of Medical Gastroenterology**

### **Equipment:**

- Vertical Deep Freezer (080c)1
- Miliq water purifier 1
- Microscope with Olympus processor (with computer) 1
- Ultrasound probe sonicator 1
- Eppendorf microcentrifuge with cooling 1
- Hot air oven and Incubator 1
- Microwave oven 1
- Ph meter 1
- Handheld cell counter pipette 1
- Water bath 1
- Remi centrifuge 1
- 1 desktop
- Magnetic stirrer
- Electronic weighing balance
- Autoclave
- Electrophoresis unit along with transilluminator
- Hp laserjet Tank MFP printer
- Samsung Refrigerator
- Spinwin centrifuge
- Rockymax Rocking shaker
- Cytometer
- ADULT GASTROSCOPE
- ADULT COLONOSCOPE
- PAEDIATRIC COLONOSCOPE
- DUODENOSCOPE
- ULTRASOUND
- C-ARM

- ARGON PLASMA COAGULATION
- ERCP SYSTEM
- BREATH ANALYSER
- Deep freezer (-20 C, -40 c, -80C)
- Manometry
- Impedence Recorder
- Capsule Endoscope
- ERBE Cautery Machine
- Linear Scope
- Double Balloon Enteroscope

### **Department of Nephrology**

#### **Equipment:**

- Jamer Hand Grip Machine 1
- BCM 1
- Stereo Microscope 1
- Elisa Reader 1
- Dry Bath 1
- Epson Projector 1
- Hemodialysis Machines
- CRRT Machine
- R.O Machines
- Reprocessing Machine
- BCM Machine
- Handgrip machine
- Bicarb Mixing Machine
- Cardiac Monitor
- Defibrillator
- Syringe pump
- 24 hour Ambulatory Blood Pressure Monitor
- NGAL machine
- UPS
- Pulse Oximeter
- Glucometer
- Centrifuge
- Nebulizer
- Ultrasound machine
- Infusion pump
- Syring Pump
- Vacuum Cleaner
- Refrigerator
- Weighing Scale – Electronic

- T.V
- Laryngoscope
- Suction Apparatus
- Crash Cart
- B.P Apparatus
- Wheelchairs with weighing Machine
- Induction cooker
- Ophthalmoscope
- Height Scale
- Weighing Machine
- Oxygen Cylinder
- Thermometer
- Computer
- LCD Projector
- Microscope Binocular
- Overhead Projector
- Black Board
- Projector Screen

### **Department of Infectious Disease**

#### **Equipment:**

- Projector: 1
- Computer system with Internet: 1
- White board:1
- Microscope: 1
- X-ray View Box: 1
- Microscope (Magnus Trinocular Microscope)
- Educational Microscope Slides
- Ophthalmoscope (Welch Allyn)
- Micropipette (F3, 20-200 mcl)

### **Department of Medical Oncology**

#### **Equipment:**

- Biosafety Cabinet
- Electronic weighing balance Sartorius: QUINT X 224S)
- Refrigerator
- Laminar Air flow

### **Department of Plastic and Reconstructive Surgery**

#### **Equipment:**

- Burn Bathtub
- Laser

- Forehead & facelift Instruments
- Set of mastoplasty instruments
- Breast Retractors
- Dermatome
- Silicone implants
- Electric Saw and Drill
- Faciomaxillary instrument set orthognathic set
- Rhinoplasty instruments
- Skin Graft Mesher
- Operating microscope
- Microsurgery instruments
- Nerve stimulator
- Hand held Doppler
- Liposuction machine and fat grafting set
- Microneedling
- Radiofrequency

### **Department of Neuro Surgery**

#### **Equipment:**

- Operation instruments for Spinal Surgery
- Operating Microscope
- Cranial Endoscopy Set
- Skull Base Endoscopy Set
- Brain Surgery
- Micro Instruments
- Gamma Knife
- Ultrasonic Aspirator
- Spinal Endoscopy Set
- Electric drill
- Stereotactic System
- Spinal Retractor System
- Nerve Monitoring System
- Diathermy unit
- C-arm
- Neuro Radiology equipments
- Ultrasonography machine for Carotid Doppler
- Neuronavigation System

### **Department of Paediatric Surgery**

#### **Equipment:**

- Open Paediatric surgery equipment's
- Laparoscopic Paediatric surgery equipments
- Paediatric Cystoscope

- Vascular surgery instrument set
- Laparotomy Set
- Thoracotomy Set

### **Department of Cardio Thoracic Surgery**

#### **Equipment:**

- Heart Lung Machine
- Defibrillators
- ABG Machine
- Anesthesia work station
- Electronic Surgical Unit with integrated vessel sealing system & Argon Plasma Coagulator
- Double Chambered Pacemaker
- Hypothermia Machine
- Ventilators
- Intra aortic balloon pump
- Ecmo Machine
- Endovascular Vein harvesting equipment
- Minimal access cardiac surgery equipment's
- Echocardiography Plus TEE / 3D
- Syringe pumps

### **Department of Urology**

#### **Equipment:**

- UDS Machine - Albyn Medicals
- Samsung HS40 (MM4)
- LogiQ-E Wipro GE (OPD)
- Santron PC-based Uroflowmeter
- Cystoscopy set – Adult
  - a. Pediatric
  - b. Adult (30°)
- Cystoscopy set - Pediatric with resectoscope for valve fulguration/VIU
- Nephroscope
  - a. 12 Fr
  - b. 20.8 Fr
  - c. 26 Fr
- Mini -PERC Nephroscope
- PCNL accessories
- Ureteroscope
  - a. Pediatric 4.5/6.5 Fr
  - b. Medium 6/7.5 Fr
  - c. Regular 8/9.8 Fr
- Ureteroscopy accessories
- C-arm image intensifier

- OIU Instrument set
- TURP set
- ESWL Machine
- USG localization facility in ESWL machine
- Urodynamic machine
- No scalpel Vasectomy instruments set
- True cut biopsy gun
- Kidney transplant instrument set
- Laser Lithotripsy Machine
- Pneumatic Lithotripter
- Laparoscopy equipment set
- Ultrasonic Dissector/ Coagulator
- Vessel Sealing Equipment.
- Ultrasonography machine (colour Doppler with linear, convex and transrectal sonography of prostate (TRUS) probes and puncture guides attachments for convex and TRUS probes
- Laparoscopy Trainers

### **Department of Paediatric Orthopaedics**

#### **Equipment:**

- Paediatric Orthopaedic set
- Image intensifier
- Fracture fixation set
- Paediatric DHS set
- Interlocking nail/ TENS
- Pneumatic drill and reamer
- Battery operated drills
- External fixator set
- Ilizarov set
- Limb reconstruction set
- Spica cushion set
- Telescopic nail set
- Adult DHS set

### **Department of Reproductive Medicine and Surgery**

#### **Equipment:**

- Laminar air flow with thermostatically controlled heating plate - 2
- Laminar air flow- 2
- Stereozoom microscope- 2
- Carbon dioxide incubator - 3
- Trigas incubator -1
- Timelapse incubator – 1
- Micromanipulator with inverted microscope -1
- Makler's chamber - 3

- Laboratory Centrifuge Machine -2
- Refrigerator- 2
- Dewars for Cryopreservation - 9
- Laser system- 1
- Water bath -1
- MilliQ water purification system
- Trinocular light Microscope - 1
- Binocular light Microscope- 1
- Alloy Blocks- 1
- Hydraulic/electrically controlled Operation Table -1 no
- Anaesthesia Apparatus with central Gas supply
- Multiparameter Monitor --1 no
- Laparoscopy set with all accessories -1no
- Hysteroscopy with accessories-1 no
- Light Source
- Camera system
- CO2 Insufflator
- Hysteromat
- Suction Irrigation system
- Operating Microscope/ Operating Loupe
- Microsurgical instrument set
- Diathermy cautery with Bipolar facility
- Ultrasound Machine for Oocyte Retrieval
- Oocyte aspiration Pump
- Test Tube Warmers
- Laminar air flow with thermostatically controlled heating plate
- Stereo zoom Microscope - 1 no
- Inverted Microscope with Micromanipulator attachment – 1 set
- Co2 incubators minimum - 2 nos
- Laboratory Centrifuge Machine - 1 no
- Cryo Freezing facility and Deewars for Cryopreservation
- Binocular Microscope - 1no
- Makler chamber - 1 no
- Refrigerator: as required
- Laminar air flow 1 no
- Binocular Microscope- 1 no
- Lab Incubator (Hot air oven) - 1 no
- Laboratory Centrifuge Machine - 1 no
- Makler Chamber -- 2 no
- Automated Semen Analyser (optional)
- Cryo freezing facility and Cryo Deewars for semen freezing
- Refrigerator: as required
- Hormone assay lab with all necessary infrastructure and equipments

## **Department of Hand Surgery**

### **Equipment:**

- Hand surgery Instruments
- Operating Microscope
- Operating loupes
- Vascular Clamp
- Bone instruments
- Microsurgery instrument
- Micro sutures
- Skin graft handle
- Dermatome
- K wire pen drive
- Power drill
- Electric Saw
- Liga clip applicator
- Wrist arthroscopy system
- Compact Mini fragment set
- Headless screw set
- Endoscope for CTS
- Skin Graft Mesher

## **Department of Surgical Oncology**

### **Equipment:**

- Laparoscopic Surgery Set
- Ultrasonic Cutting device
- Vessel sealer
- Headlight
- High end suction machine
- Infusion pump
- Laryngoscope with all blades
- Colposcope
- Upper-Lower GI endoscope
- Bronchoscope
- Thoracoscope
- Video Laryngoscope
- Skill Laboratory
- ICG
- Robotic

## **Department of Neonatology**

### **Equipment:**

- ABL 800 Basic ABG Machine x 1

- Intelligent hearing systems x 1
- Olympus CH 20 Microscope x 1
- Dreager JM105 TcB machines x 2
- Bilicare TcB machine x 1
- REMI RM-12C Centrifuge x 1
- Multipara Monitors-20
- Echo – color Doppler - 1
- Resuscitation kit -4
- Phototherapy Units (CFL & LED) - 10
- Radiant warmer - 23
- Pulse Oximeters
- 2 (Masimo) + 2 (Nonin)
- Neonatal ventilator including high frequency ventilation - 15
- ECG machine - 1
- CPAP machine - 8
- Crash cart trollies - 3
- Computerized PFT equipment
- ABG Equipment - 1
- Syringe pump - 38
- USG - 1
- Defibrillator - 1
- Transport Incubator - 1
- Stadiometer/weighing scale - 6
- Laminar Flow in ICU - 1
- HHHFNC – 3 AIRVO
- EEG Machine - 1
- Phototherapy Equipment - 7
- Parenteral nutrition Equipment - 1
- Inhaled NO machine - 2
- Therapeutic hypothermia machine - 1
- Neonatal bronchoscopy
- Oxygen blenders - 11
- T piece resuscitator - 2
- OAE/AABR machine - 1
- Cerebral Function Monitor - 1
- Portable X-ray machine - 1
- Video Laryngoscope with wide field retinal digital camera – 1

### **Department of Head and Neck Surgery**

#### **Equipment:**

- Olympus Visera Elite II OTV-S500
- Interactive Panel
- Desktop

- Microscope
- Refrigerator
- Weighing balance

### **Department of Endocrinology**

#### **Equipment:**

- Roche COBAS-8000- 702 -2Nos
- Roche COBAS-8000- 502 -1 No
- Roche COBAS-8000- 801 -2 Nos
- Roche COBAS-8000- ISE- 2 Nos
- D-100-2 Nos
- Osmometer- 2 Nos
- HELENA Electrophoresis- 2 Nos

### **Department of Paediatric Oncology**

#### **Equipment:**

- Automated analysers
- Flow cytometry
- Immunohistochemistry
- Nos. of Biosafety Cabinet
- Infusion Pumps
- Syringe Pumps
- Multi-Para Monitor
- ECG Machine
- Defibrillator
- Day Care Crash Cart

