

# National Minimum Requirement for Health Facility Instrument and Equipment

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We extend our sincere appreciation to all contributors for their time, expertise, and commitment to strengthening the quality and consistency of essential equipment and supply standards across health facilities in the Maldives. Their input has been instrumental in developing a comprehensive guide that supports safe, efficient, and patient-centred care.

### 1. INTRODUCTION

Safe delivery of effective, and high-quality healthcare services relies significantly on the availability of appropriate equipment, instruments, furniture, fittings, and consumables within health facilities. This booklet outlines the minimum equipment, instrument, furniture and other requirements for health facilities in the Maldives. The document aims to ensure that every health facility, (whether at primary, secondary, or tertiary level) has the essential tools and materials required to deliver services aligned with the level of care they are mandated to provide. It serves as a national reference guide on minimum resource requirement.

The requirements outlined in this booklet have been developed through a consultative process involving experts from various health disciplines, taking into consideration national health priorities, international best practice standards, and the practical realities of the Maldives. They are designed to promote equity, efficiency, and quality in service delivery, while also guiding resource allocation and infrastructure development.

## 2. OBJECTIVES

The main objective of this booklet is to establish a standardized set of minimum requirements for equipment, instruments, furniture, fittings, and consumables across all levels of health facilities in the country.

## 3. SCOPE AND APPLICABILITY

This booklet applies to all public and private health facilities providing health care in the Maldives and serves as a comprehensive reference for determining the minimum required equipment, instruments, furniture, and other requirement necessary to deliver safe and effective healthcare services.

## 4. GENERAL CONSIDERATIONS

- 4.1 Users of this booklet are encouraged to view it as a dynamic tool, adaptable to changing technologies, disease patterns, and the needs of each individual health facility and the intended services.
- 4.2 Given the variation in the complexity and scope of services offered at different levels of healthcare in the Maldives, this booklet categorizes and tailors the requirements accordingly.
- 4.3 Certain equipment and instruments listed are specifically intended for tertiary-level hospitals, based on the specialized services they provide. In contrast, some items are designated as essential at the facility level, without a specific departmental location, and must be available for use as needed to ensure effective service delivery and emergency preparedness.
- 4.4 This booklet does not provide a detailed list of instruments included in specific patient care trays commonly used in health facilities (e.g., catheterization trays). Instead, it identifies which trays or patient care items are required in each department or unit. Health facilities are given the responsibility to determine the appropriate contents of each tray, and to decide whether the instruments should be preassembled in trays or sterilized and stored separately for use as needed.

## 5. CORE EQUIPMENT REQUIREMENT BY SERVICE AREAS

The instrument and equipment requirements are categorized into three main lists: Out-patient Department (OPD) Requirements, In-patient Department (IPD) Requirements, and Therapeutic Unit Requirements. Each list is further subdivided into the following categories:

### 5.1 *Out-patient departments (OPD)*

A comprehensive list of Out-Patient Department (OPD) is attached to the annex 1 of this document. OPDs in a health facility is the part of a hospital designed for the treatment of outpatients, people with minor health problems and health needs. Minimal equipment and instruments are needed for OPDs in health facilities as they primarily handle non-emergency patients who require basic diagnostic services. Therefore, the following are list of equipment and supplies which is required for OPDs in health facilities from the following groups.

1. **Basic diagnostic and examination items:** Items in this category are used for basic patient assessments and diagnosing.
2. **Safety and support equipment:** Items in this category is used in supporting patient care and safety of the patient.
3. **Area-Specific Requirements:** This category includes items that may be required in addition to the general equipment, specifically tailored for use in specialized service areas.

### 5.2 *In-patient departments (IPD)*

The list of requirements for In-Patient Departments (IPDs) is attached to annex 2 of this document. IPDs within a health facility provide accommodation and comprehensive care for patients requiring extended stays for diagnosis, treatment, and recovery. These departments require a variety of specialized equipment to ensure effective patient care, accurate diagnosis, and appropriate treatment. The following is a list of essential items required for IPD units in health facilities. Equipment requirements may vary based on the level of the facility, the range of services offered (from basic to advanced care), and the types of cases managed.

1. **Diagnostic and general patient examination items:** Items in this category are used for basic patient assessments and diagnosing.
2. **Resuscitation equipment:** These items are essential for providing immediate support to patients requiring emergency care.
3. **Patient care items:** Patient care items in a health facility may encompass a wide range of devices from basic to complex machineries such as ventilators. These items may also vary depending on the level of the hospital and the level of the services provided.
4. **Safety and Support Equipment:** Items in this category is used in supporting patient care and safety of the patient.
5. **Additional area specific requirement:** This category includes items that may be required in addition to the general equipment, specifically tailored for use in specialized service areas.

### 5.3 *Therapeutic services*

A comprehensive list of requirements for therapeutic serves in included in annex 3 of this document. This list includes machineries, instrument and equipment required for different therapeutic services. Some of the machineries and equipment are required for therapeutic stand alone or a general clinic, where extensive services may not be available. However, items marked with a (\*\*), however are specifically required for departments within tertiary level hospital or equivalent health facility.

### **5.4 Diagnostic services**

The diagnostic services covered in this document are outlined in detail in Annex 4. This includes a comprehensive list of requirements for laboratory services. As diagnostic needs vary across specialties, different types of machinery, equipment, instruments, and consumables are required. Due to the potentially extensive nature of these requirements, specific equipment lists for all diagnostic services are not included in this document. Instead, equipment and instrument needs should be determined based on the diagnostic services offered by each health facility and the population it serves. Each facility is expected to develop its own list of equipment and consumables tailored to the specialist services it provides.

### **5.5 Support services**

List of requirements for support services in health facilities are listed in annex 5 of this document. This section includes a list of requirements for a general cleaning and disinfection unit in a health facility and a fully equipped Central Sterile Supply Department (CSSD) required for a tertiary level hospital or equivalent health facility.

## 6. INSTRUCTIONS FOR USE

This section outlines **FIVE** essential instructions to guide the effective use of the Minimum Equipment Requirement Catalog across various levels of health facilities. Adhering to these guidelines will help ensure that equipment selection aligns with service delivery capacity, facility type, and population needs, while also supporting proper planning, quality assurance, and maintenance standards.

1. Identify the level of the health facility (Health centre, Atoll Hospital, Regional Hospital, or Tertiary Hospital, general hospital and general clinic)
2. Select the requirements of the intended services
3. Equipment specification has not been listed in this booklet; however, all selected equipment must be hospital-grade, certified, and compliant with recognized medical standards to ensure safety, durability, and effectiveness in clinical use.
4. Ensure all equipment undergoes routine calibration and maintenance as per the recommended schedule, manufacturer's instructions, and operational needs.
5. The items in the list marked with key below indicates the location of each item and specifies whether the instrument is essential at all facility levels or specifically intended for tertiary-level hospitals.

### Key:

Key	Description
*	Essential at the facility level (location of the item not specified and can be located within the health facility setting)
**	Items required for tertiary level hospitals

## 7. REFERENCE

Radiology CRM software. (2025). Retrieved from, <https://radiologycrm.in/radiology-equipment/>.

## Annex 1: Requirement for Out-Patient Department (OPD)

<b>OUT-PATIENT DEPARTMENT</b>	
<b>General Practitioner's Room (GP Room)</b>	
<b>Basic Diagnostic and Examination Items</b>	
1	Examination Bed (height adjustable with step stool)
2	Examination light or LED lamp
3	BP apparatus (manual mercury free/digital)
4	BP cuff (all sizes)
5	Stethoscope (adult/peds)
6	Thermometer (digital or infrared)
7	Weighing scale (digital)
8	Height measuring scale or stadiometer
9	Tongue depressor(s)
10	Torch /pen light
11	Reflex hammer
12	Tuning fork (128Hz)
13	Measuring tape
14	Glucometer with strips
15	Spo2 Probe (Finger all sizes)
16	Basic diagnostic set (Otoscope, Ophthalmoscope)
17	X-Ray film view box/digital system
<b>Safety and Support Equipment/item</b>	
1	Handwashing (Soap/sanitizer)
2	Hand drying (tissue)
3	Dustbin 20 litre (general and biohazard)
4	Computer System (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)
5	Communication system (phone)
6	Table and executive chair (for doctor)
7	Chair (for patient and bystander)
8	Privacy Screen
9	Token System
<b>Internal Medicine Specialist Consultation Room</b>	
1	Items from GP room
<b>Gynaecology and Obstetrics Consultation OPD</b>	

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1	Items from GP room
	<b>Area Specific Requirement</b>
2	Gynae chair
3	Obstetric calculation wheel
4	Portable examination light
5	Duck bill vaginal speculums (S, M, L sizes)
6	Per vaginal speculum examination kits
7	foetal doppler
	<b>Paediatric Consultation OPD</b>
1	Items from GP room
	<b>Area Specific Requirement</b>
2	General Clinical Tools
3	Newborn weight and height measuring scale
4	Infant weighing scale and height scale
5	BP cuff (infant/child)
6	Paediatric stethoscope
7	Otoscope with paediatric spatula
8	Growth Monitoring
9	Length/infantometer board (for babies under 2 years)
10	Mid-upper arm circumference (MUAC) tape
11	Head circumference measuring tape
	<b>Surgical Consultation OPD</b>
1	Items from GP room
	<b>Area Specific Requirement</b>
2	Portable examination light
3	Proctoscope
4	Dressing trays and scissors
	<b>Ophthalmology Consultation OPD</b>
1	Items from GP room
	<b>Area Specific Requirement</b>
2	Eye examination chair
3	Retinoscope
4	Lensometer
5	Perimeter with Computer Printer

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6	Refractometer
7	Auto kerato Refractometer
8	Slit lamp with toner meter
9	Eye chart system
10	Fundus Camera with Florescence Filter
11	Ophthalmoscope, indirect
12	Ophthalmoscope, direct
13	Tonometer (Schiotz or digital)
14	Trial lens set with trial frame
15	Phoropter
16	Rotating Chair with arm rest
<b>ENT Consultation OPD</b>	
1	Items from GP room
<b>Area Specific Requirement</b>	
2	ENT complete workstation
3	Headlight (ENT head mirror or LED)
4	ENT instrument set
5	Ear syringing set
6	Nasal speculum (S, M, L)
7	Tuning forks (256Hz, 512Hz)
8	Laryngeal mirrors
9	Nasal pack, throat pack gauze different sizes
<b>Dermatology Consultation OPD</b>	
1	Items from GP room from
<b>Area Specific Requirement</b>	
2	Portable examination light
3	Cautery machine (Dermatology)
4	Phototherapy machine (Dermatology)
5	Magnifying lamp
6	Sterile instruments for minor procedures
7	Dermatoscope
<b>Orthopaedic Consultation OPD</b>	
1	Items from GP room
<b>Area Specific Requirement</b>	

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2	Plaster cutting machine
3	POP trolley
4	Basic surgical set (for minor procedures)
5	Splints, braces
6	K-Wire remover
7	Plaster cutting scissors
8	Bowl
9	Foot holder
10	Plaster spreader
11	Psychiatric Consultation OPD
12	General Consultation Room items
<b>Dental Consultation OPD</b>	
1	Items from GP room
<b>Area Specific Requirement</b>	
2	Complete dental chair unit with suction, light, air compressor, scaler
3	Dental handpieces (air rotor, micromotor)
4	Table top infra-red sterilizer
<b>OPD Procedure / Treatment Room</b>	
<b>Medical Equipment</b>	
1	Vital sign monitor
2	Glucometer with strips
3	Portable vital monitor
4	ECG machine with accessories
5	Nebuliser with accessories
6	Stethoscope (adult /paediatric)
7	O2 cylinder with flow meter and cart
8	Suction machine
9	Examination table
10	OT light single dome
11	Procedure trolley
12	Instrument and bowl sets
13	Kidney trays, gallipots and basins
<b>Minor Procedure Instrument</b>	
1	Minor surgery sets

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2	Dressing sets
3	Suture tray
4	Suture removal tray
5	POP trolley
6	SS Trolley 3 tier, buffered, with side bars
7	Myostand
8	Cautery machine (monopolar / bipolar)
9	Emergency and Resuscitation Supplies
<b>Emergency cart with defibrillator</b>	
1	Magill Forceps(adult/paediatric)
2	Ambu bag with reservoir bag
3	Stillet (adult/paediatric)
4	Laryngoscope Set
5	Medicine Fridge
<b>Supporting Equipment</b>	
1	Storage racks
2	Handwashing facility (Soap/sanitizer)
3	Hand drying facility (tissue)
4	Dustbin (general and biohazard)
5	linen hamper with lid single, foot operated
6	Storage rack (closed and hospital graded)
7	Table and office chair for doctor
8	Computer System (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)
9	Sharps disposal
10	Linen shelf
11	Linen hamper double with wheels
12	Nursing station with office chair
13	Adult weight and height scale
14	Domestic refrigerator
15	Locked cupboard for narcotics
<b>Chemotherapy unit (day care)</b>	
1	Biosafety cabinet
2	Chemo chair
3	Infusion pump

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4	Syringe pump
5	Vein detector
6	Cardiac monitor
7	Cytotoxic spillage kit
8	Computer system (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)

## Annex 2: In-Patient Department (IPD)

<b>IN-PATIENT DEPARTMENTS</b>	
<b>GENERAL WARD</b>	
<b>Diagnostic and General Patient Examination Items</b>	
1	Vital sign monitor (BP, Pulse, temp, SpO2 and RR)
2	Thermometers (digital or infrared)
3	Cardiac monitor
4	Stethoscope
5	Sphygmomanometer (manual/Digital)
6	Pulse oximeter
7	Basic diagnostic set (Otoscope, Ophthalmoscope)
8	Glucometer with reagent strips and single-use lancets
9	Adult and paediatric weighing machine
10	Nebulizer machine
11	Tuning forks (256Hz, 512Hz)
12	Knee hammer
13	Torch/pen light
14	X-Ray film view box/digital X-ray view system
15	Portable ECG machine with accessories*
16	Portable USG machine*
17	ABG or iSTAT Machine**
<b>Resuscitation equipment</b>	
1	Emergency Trolley/cart with Defibrillator
2	Oxygen cylinder with humidifier and regulator with cart
3	Suction machine with accessories
4	Ambu bag (manual resuscitator) with reservoir
5	Stilett and Bougie
6	Infusion volumetric pump, multi-channel with stand
7	Syringe pump
8	Laryngoscope with blades (all sizes)
9	Portable ventilator with accessories**
<b>Patient Care Items</b>	
1	Adjustable hospital bed with side rails and mattress

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2	Air mattress and pump
4	Patient controlled analgesia machine
5	IV stands and IV poles
6	Medication trolley
7	Catheterization tray
8	Mouth care tray
9	Suturing tray
10	Suture removal tray
11	Dressing sets
12	SS Trolley (2 tier, buffered)
13	Dressing trolley
14	Bath Basin/trolley
20	Minor procedure tray
15	CVC set
17	Bedpan and urinals
18	Bedpan and urinal washer
19	Urine measuring jugs
22	IV fluid cabinet or shelves
23	Medication preparation table
24	Patient rollers
25	BMI machine
26	Ampoule cutter
27	Medicine cutter
28	Medicine crusher
29	Feeding cups
30	Feeding shaker
31	PC bowl with sponge holding forceps
32	Oxygen concentrators (optional)*
33	Vein detector*
35	Patient warmer
<b>Safety and Support Equipment/items</b>	
1	Narcotic cupboard
2	Drug storage cabinets with lock

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3	Stretcher with oxygen holder
4	Trolley Stainless steel (closed for CSSD)
5	Refrigerator (Pharmaceutical and Domestic)
6	Fire alarm system and fire extinguishers
7	Emergency light/backup power source (UPS)
8	Hand sanitizer dispensers
9	Soap dispensers
10	Overbed tables (height adjustable)
11	Waste bins (general and clinical)
12	Sharp disposal containers
13	Mop buckets and cleaning supplies
14	Laundry bags and hampers
15	Bedside locker
16	Chair for patient bedside (hospital graded)
17	Water dispenser
18	Wheelchairs and stretchers
19	Commode chairs (for elderly or mobility-impaired)
20	Height measuring scale (optional)
21	Barcode printer
22	Computer System (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)
23	Kettle
24	Linen trolley
25	Foot step
<b>PAEDIATRIC WARD</b>	
1	General ward items
<b>Paediatric Specific Medical Instrument</b>	
2	Otoscope with child/adult specula
3	Tongue depressors (child-size)
4	Reflex hammers (paediatric)
5	Paediatric oxygen concentrators
6	Furniture
7	Paediatric beds with side rails and child safety lock
8	Infant and Newborn weight and height measuring scale

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9	Paediatric laryngoscope with blade set
10	Patient Monitor with infant pulse oximeter
11	Baby Warmer with accessories
12	Blue light phototherapy unit
13	Baby cots
14	IV fluid warmers *
15	Vein detector*
<b>GYNAECOLOGY WARD</b>	
1	General ward items
<b>Gynaecological Specific Requirement</b>	
2	Obstetric calculation wheel
3	foetal doppler
4	CTG machine (Single)
5	CTG machine (single and double)
6	Vaginal speculums (Cusco's, sims) various sizes
7	Sponge holding forceps
8	Baby cots
9	Newborn weight and height measuring scale
10	Blue light phototherapy unit
11	Breast pump
12	Infant radiant warmers (with all accessories)
13	Neonatal BP cuffs (different sizes)
14	PPH Trolley
15	Delivery set
16	Bottle sterilizer
17	USG Machine (portable)*
18	ECG machine with neonatal electrodes*
<b>MEDICAL/SURGICAL WARD</b>	
1	General ward items
<b>Area Specific Items</b>	
2	BiPAP Machine with charger and O2 port/T piece
3	BiPAP mask with gel pad
4	CPAP Machine, with mask (all sizes)

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5	Cardiac monitor for high dependency cases (managed in ward)
6	Peak flow meters and spirometers
7	Feeding pump
<b>ENT / OPHTHALMOLOGY WARD</b>	
1	General ward items
<b>Area Specific Items</b>	
1	Tracheostomy set
<b>PSYCHIATRIC WARD</b>	
1	General ward items from
<b>Area Specific Requirement</b>	
1	CCTV surveillance system (with privacy considerate placement)
2	Patient bell/intercom system
3	Door and window alarms (for high-risk areas)
4	Fire and smoke alarm
5	Restraint belts
6	Anti-ligature beds and mattress (non-removable, non-flammable)
7	Fixed bedside furniture (no detachable parts)
8	Non-breakable overbed tablets
9	soft seating (e.g. Bean bags and bolted chairs)
10	Lockable patient cupboards
<b>ORTHO WARD</b>	
1	General ward items
<b>Area Specific Requirement</b>	
2	Orthopaedic beds (with elevation, traction compatibility)
3	POP cutting scissors
4	Walkers (fixed, foldable)
5	Cast spreaders
6	Plaster saw (manual or electronic)
7	Bone levers (for minor adjustments)
8	Splint and immobilization sets
9	Orthopaedic wedges and supports
10	Traction devices with Pulley and weights
11	Sand bags

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12	Assistive device (Walker, Crutches, Cane)
13	Thomas Splints (different sizes)
14	Cervical collars, lumbar braces
15	Tourniquet (manual for limb assessment)
16	Crutches (adjustable aluminium or underarm)
17	Pulse lavage device (optional for wound irrigation) *
18	Abduction pillow*
19	CPM machine (Continuous Passive Motion-for knee) **
20	POP cutting machine with blade/vacuum**
<b>INTENSIVE CARE UNIT (ICU)</b>	
1	General ward items from 1-56
<b>Area Specific Requirement</b>	
<b><i>Life Support &amp; Respiratory Equipment</i></b>	
2	Mechanical Ventilators (Adult and Transport types)
3	High-flow oxygen therapy device
4	CPAP/BiPAP machine
5	Portable ventilator (for patient transport)
6	Ambu bags
7	Suction machine (central and portable)
8	Oxygen cylinders with regulators
9	Air and oxygen blenders
10	Humidifier system
11	Nebulizer machines
12	Laryngoscope with blades
13	Magil forceps
14	Patient Monitoring Systems
15	Multi-parameter monitors (ECG, SpO2, NIBP, RR, Temp)
16	Bedside monitors with central station connectivity
17	Arterial pressure monitor
18	CVP monitor
19	Capnograph (etCO2)
20	Pulse oximeter with probes
21	Thermometers (digital and tympanic)

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22	ICP monitor (in neuro ICU) **
23	Glucometer with strips
	<b>Infusion and Fluid Management</b>
1	Syringe pumps
2	Volumetric infusion pumps
3	IV pole and IV stand
4	Pressure infuser bags
5	Bed and furniture
6	ICU beds (electric, 3-5 function with side rails)
7	Pressure-relieving mattress (air/gel type)
8	Overbed tablets/cardiac tables
9	Patient chairs
10	Mobile instrument trolley
11	Crash cart (resuscitation trolley)
12	Suction apparatus
13	Bedside commodes
	<b>Emergency Equipment</b>
1	Defibrillator with ECG and pacing functions
2	Emergency cart
3	Intubation tray (laryngoscope, ET tubes, stylet, etc)
4	Difficult airway kit
5	Arterial line insertion kit
6	Chest tube insertion set with underwater seal
7	Cricothyrotomy/ emergency tracheostomy set
8	ECG machine
9	AED*
10	Resuscitation boards*
	<b>Diagnostic equipment</b>
1	Point-of-care blood gas analyser (ABG or iSTAT)
2	Point-of-care electrolyte analyser
3	CVC set
4	Patient warmer
5	Fluid warmer

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6	Blood warmer
7	Dialysis machine with portable RO
8	Scrub Sink
9	Central Monitor
10	CPAP Machine, with mask
11	BIPAP Machine with mask
12	Ventilator, Adult-Paediatric
13	ABG or iSTAT
14	High flow machine with accessories
15	Echo machine with adult and paediatric probes
16	Capillary machine
17	DVT machine
18	Portable doppler
19	Vein detector
20	Walker
21	ICD instruments
22	Naso pharyngeal airways
23	Portable X-ray unit*
24	Portable ultrasound machine*
25	Bladder scanner**
<b>NEONATAL INTENSIVE CARE UNIT (NICU)</b>	
<b>Area Specific Requirement</b>	
<b><i>Life Support and Respiratory Equipment</i></b>	
1	Infant Radiant Warmers
2	Incubators (standard and Transport)
3	Bubble CPAP system with all accessories
4	High frequency ventilators
5	Oxygen and Air Blender
6	Humidifier for Respiratory Support
7	Oxygen Cylinders with Flowmeters
8	Nasal Prongs. Masks (neonatal sizes)
9	Suction Machine (electric and manual)
10	Laryngoscope with Neonatal blades

## National Minimum Requirement for Health Facility Instrument and Equipment

11	Endotracheal tubes (various neonatal sizes)
12	Ambu bag (self-inflating resuscitator-neonatal size)
13	Oxygen Hood
14	Neopuff with all accessories
	<b>Monitoring Equipment</b>
1	Multi-parameter monitors (HR, SpO2, BP, RR, Temp)
2	Pulse oximeters (with neonatal probes)
3	Apnoea Monitors
4	Cardiac Monitors
5	Blood pressure monitor (neonatal cuffs in various sizes)
6	Transcutaneous Bilirubin meter
7	Capnography (optional)
8	Defibrillator with paediatric electrodes + phasing electrodes
9	ROP screening equipment
	<b>Thermal Regulation</b>
1	Servo-controlled radiant warmers
2	Portable incubators with temperature control
3	Baby blankets and head coverings
4	Thermometers (digital, infrared, or skin probe types)
5	Infant cooling system**
	<b>Infusion and Feeding Equipment</b>
1	Syringe pump
2	Infusion pump
3	Feeding pumps
4	Feeding bottles with preemie nipples
5	Breast pumps
6	Neonatal vein detector
7	Milk warmer with thermostat
8	Domestic refrigerator
9	Nifty feeding cup
	<b>Diagnostic and Laboratory</b>
1	Blood Gas Analyzer
2	Point-of-care glucometer (with neonatal lancets)

## National Minimum Requirement for Health Facility Instrument and Equipment

3	Haematocrit centrifuge
4	Iris forceps
5	Cutdown set
6	General Supplies & Furniture
7	NICU cribs/cots
8	Crash cart (resuscitation trolley)
9	IV stand and fluid warmers
10	Phototherapy units (LED or conventional)
11	Weighing scale (neonatal precision)
12	Baby basinet with storage drawers
13	Kangaroo Mother Care chair
14	Feeding chair for mother
15	Laminar flow cabinet
16	Portable OAE hearing screening machine**
	<b>Others</b>
1	Transport incubators with oxygen/monitoring
2	Portable X-ray machine (with lead protection) *
3	Omnibed**
4	Biliblanket*
	<b>PRIVATE WARD</b>
1	General ward items
	<b>DIALYSIS UNIT</b>
1	General ward items
	<b>Area Specific Requirement</b>
1	Dialysis Machine
2	Reclining dialysis chairs with inbuilt armrests and BP monitor support
3	Reverse Osmosis System, Portable
4	Conductivity and pH meter (for water quality testing)
	<b>LABOUR ROOM</b>
	<b>Delivery and Obstetric Instruments</b>
1	Delivery set and bundle
2	Umbilical cord clamps
3	Episiotomy scissors

## National Minimum Requirement for Health Facility Instrument and Equipment

4	Artery forceps
5	Sponge holding forceps
6	ARM forceps (Kocher forceps)
7	PPH trolley
8	Instillation tray
9	Sim's and Cusco's speculum
10	Suturing tray
11	Suture removal sets
	<b>Labour Room Equipment</b>
1	Spot light
2	Cardiac monitor
3	CTG machine
4	Doppler foetal heart rate monitor
5	Suction machine for neonates
6	Oxygen cylinder with flow meter
7	Infusion and syringe pump
8	Emergency light or backup power supply
9	Wall clock with seconds hand
10	IV stand and IV pole
11	Blood pressure apparatus (manual/digital)
12	Thermometer (manual/digital)
13	Pulse oximeter
14	Urine measuring jug
15	Mucous extractor for neonates
16	Stethoscope (adult and neonates)
17	Ultrasound machine (point-of-care)
18	Vacuum extractor forceps
19	Antishock garments or tamponade balloon (for PPH management)
20	Infusion warmer
21	CTG machine (Single)*
22	CTG machine (Single and double) **
	<b>Emergency &amp; Resuscitation Equipment</b>
	<b>Maternal Emergency Equipment</b>

## National Minimum Requirement for Health Facility Instrument and Equipment

1	Crash cart with emergency drugs
2	Ambu bad with reservoir
3	Airway management kits (oral airways and oxygen mask)
4	Urinary catheterization kits
	<b>Neonatal Resuscitation Equipment</b>
1	Radiant warmers with resuscitation setup
2	Neonatal Ambu bag with infant and preterm mask
3	Laryngoscope with neonatal blades
4	Meconium aspirator
5	Oxygen supply with blender
6	Meconium aspirator
7	Neonatal resuscitation bag
8	Neopuff with all accessories
9	foetal doppler
10	Neonatal stethoscope.
11	Infant laryngoscope with blades
12	Infant warmer
	<b>Furniture and Fixtures</b>
1	Labour/delivery beds (adjustable with lithotomy position)
2	Bedside lockers
3	Overbed tablets
4	Stool for attendants
5	IV stand/pole
6	Instrument trolley
7	Mayo trolley
8	Dressing trolley
9	Llinen trolley
10	Drug trolley
11	Waste bins (colour coded, foot operated)
12	Sharp disposal containers
13	Transport stretcher
14	Transport incubator
15	Digital infant weighing machine

16	Measuring tape
<b>REPRODUCTIVE HEALTH UNITS</b>	
<b>Medical Equipment/Instrument</b>	
1	Examination lamp
2	Foetal doppler
3	Scan machine
4	CTG machine
5	BMI and weighing scale
6	Patient examination bed
7	Digital Thermometer (digital/infrared)
8	Sphygmomanometer or digital BP monitor
9	Stethoscope
10	SS trolley
11	Obstetric wheel
12	Chair stool
13	IV stand
14	Colposcopy machine
15	Cryoprobe
16	Cryo gun and Cryo tip
17	Operation theatre light
18	Electro cauterization machine/ cautery
<b>Models for teaching</b>	
1	Delivery mechanism models
2	Adult female pelvis
3	Breast self-examination model
4	Newborn life dolls
5	Copper-T insertion model
6	Implanon insertion model
7	Male condom model
8	Nutrition food platter
9	Episiotomy training model
10	Cloth breast model
<b>Patient Sare Instruments</b>	

## National Minimum Requirement for Health Facility Instrument and Equipment

1	Dressing tray
2	Implanon insertion tray
3	Implanon removal tray
4	Suturing tray
5	Coper-T insertion tray
6	Cauterization tray
7	Dressing drums (S, M)
<b>OPERATION THEATRE</b>	
<b>Surgical Equipment</b>	
1	OT Light with double dome (Ceiling mounted, shadowless with adjustable intensity)
2	OT Table with all attachments (hydraulic, adjustable)
3	Suction Machine double jar
4	Surgical Diathermy Machine with all accessories
5	Patient monitor (NIBP, ECG, SpO2, Temp, ETCO2)
6	Defibrillator
7	Infusion pumps and syringe pumps with stand
8	Fluid warming cabinet
9	Blood Warmer System
10	Patient Warming System
11	Fracture table with all attachments
12	Lead Apron stand with multiple arms
13	Lead Apron full cover (light weight) with thyroid collar
14	X ray badges
15	Portable spot light
16	Surgical pendant with Vacuum, O2, at least 2-3 tiers**
17	Complete Laparoscopy unit with all accessories**
18	Surgical microscope**
<b>Anaesthesia and Airway Management</b>	
1	Anaesthesia machine with monitoring system and capnography and scavenging unit
2	Portable cardiac monitor
3	Laryngoscope set with all size blades, Sizes: 0-4
4	Crash cart with emergency drugs and consumables
5	Bag-Valve mask resuscitator

## National Minimum Requirement for Health Facility Instrument and Equipment

6	Magill's forceps
7	Anaesthesia circuits
8	Pulse oximeter (portable)
9	Sterilization and Infection Control
10	Autoclave (steam or dry heat) or access to CSSD
11	OT Furniture
12	MAYO stand
13	OT Chair
14	Patient stretchers (multifunctional)
15	SS Linen Storage Cabinet with glass doors
16	Instrument Storage racks (multiple shelves)
17	Implant storage rack with multiple compartments
18	Linen Hamper Cart (single)
19	Linen Hamper Cart (double)
20	STAND, double cidex container, single, stainless steel
21	STAND, bowl, single, stainless steel
22	TROLLEY, contaminated linen, single ring, stainless steel (for septic)
23	TROLLEY, CSSD, SS, closed
24	Scrub sink (foot operated)
25	TROLLEY, dressing/instrument, SS, buffered
26	TROLLEY, general purpose, 3 tier, buffered
27	Baby Warmer
28	X-ray Film Illuminator
29	Baby Weighing Machine
30	Bedpan Washer
31	Bed Pan Holder, wall mount
32	Medical Fridge
33	USG Machine
34	Implant storage cabinet/rack
35	Dustbin (general and biohazard)
36	Laparoscopy tower and instrument (camera, insufflator, monitor, light source)
37	C-Arm X-ray (for orthopaedic surgeries)
38	Microscope (for ENT or Ophthalmic surgeries)

## National Minimum Requirement for Health Facility Instrument and Equipment

39	Fluid management system (suction/irrigation)
40	Medical Fogger*
41	UV light*
42	Anaesthesia pendant with Vacuum, O <sub>2</sub> , Medical Air **
43	Optional Advanced Equipment**
<b>EMERGENCY ROOM (ER)</b>	
<b>Resuscitation and Airway management</b>	
1	Resuscitation bed (5 function electric bed)
2	Oropharyngeal airways (sizes for adults, paediatrics and infant)
3	Nasopharyngeal airways
4	Laryngoscope set (adult and peds)
5	Bag-valve mask (Ambu bag) adult, paediatric, neonatal
6	Suction machine
7	Oxygen cylinder with flow meter and regulators
8	Bougie
9	Yankquer suction tip
10	Stillet (adult/paediatric)
11	Magill forceps, (adult/paediatric)
12	Nebulizer with accessories
13	Point of care machines (iSTAT and toxicology)
14	Digital wall clock
15	Vein detector
16	Portable ventilator*
17	BiPAP*
<b>Circulation and IV access</b>	
1	Infusion pump with IV stand and charger
2	Syringe Pump with IV stand and charger
3	IV stands with wheels
4	Fluid warmer
5	Monitoring and Diagnostic Tools
6	Patient monitor (ECG, BP, SpO <sub>2</sub> , temperature, RR)
7	Cardiac monitor with stand/wall mount for each bed
8	Vital monitor with stand

## National Minimum Requirement for Health Facility Instrument and Equipment

9	Stethoscopes and sphygmomanometer (adult, peds and infant size)
10	Thermometer (digital/infrared)
11	Portable biphasic defibrillator
12	Emergency crash cart with accessories
13	Pulse Oximeter (adult/paediatric probes)
14	Glucometer (with strips and lancets)
15	Basic diagnostic set (Otoscope, Ophthalmoscope)
16	Knee hammer
17	Spot light
18	Torch /pen light
19	Patient monitor (portable)*
20	ECG Machine (12 lead) *
21	foetal Doppler*
	<b>Trauma and Procedure Equipment</b>
1	SS Trolley 3 tier, buffered with side bars
2	Cervical collars (all sizes)
3	Spine board or scoop stretcher
4	Splints (arm and leg)
5	Pelvic binder
6	Suture set
7	Minor surgical set
8	Chest tube insertion set
9	Sand bag (paediatrics)
10	ICD bottle (single, double)
11	Trocher (all sizes)
12	Pneumatic tourniquet (with upper and lower limb cuffs)
14	Speculum (all sizes)
15	Video laryngoscope (adult and paediatric)
13	Breathalyzer **
	<b>Support Equipment</b>
1	Medicine fridge
2	Narcotic cupboard/locker
3	X-Ray film view box/digital system

## National Minimum Requirement for Health Facility Instrument and Equipment

4	Sterile storage racks closed (hospital graded)
5	Storage racks (hospital graded)
6	Linen cupboard (closed)
7	Closed linen hamper foot operated
8	Dustbin 20 litre (general and biohazard)
9	Sharps disposal
10	Computer system (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)
11	Communication system
12	Urinals and urinal washer
13	Bed pan and washer
	<b>Optional Equipment</b>
1	Portable X-ray (or access to radiology)
2	Blood refrigerator or cross-matched supply access
3	Eclampsia kit
4	Thermal blanket/body warmer
5	Chemotherapy Unit
6	Medication Preparation
7	Class II Biosafety cabinet
8	Chemotherapy spill kit
9	Chemo chair
10	Infusion pump
11	Syringe pump
12	Vein detector
13	Digital weighing scale
14	Point-of-care ultrasound (POCUS)*
15	Blood gas analyser**
	<b>Monitoring and Emergency Equipment</b>
1	Vital sign monitor
2	Pulse oximeter
3	ECG machine
4	Glucometer with strips
5	Emergency cart with defibrillator
6	Cardiac monitor

National Minimum Requirement for Health Facility Instrument and Equipment

7	Echo cardiogram
8	Ambu bag with oxygen support
9	Reclining treatment chair with arm rest
10	Computer system (Monitor, Mouse, CPU, UPS, printer, CD reader, etc)

## Annex 3: Therapeutic Services

#	THERAPEUTIC DEPARTMENTS
	PHYSIOTHERAPY
	<b>General Therapeutic Equipment</b>
1	Treatment/ Examination Couch- Hydraulic
2	Therapy/rehab beds with firm mattress
3	Therapy mats (floor-based exercise)
4	Parallel bars (for gait training)
5	Exercise balls (Swiss balls, peanut balls)
6	Resistance bands and tubes (light to heavy)
7	Ankle and wrist weights (various sizes)
8	Dumbbells and barbells (1-10 kg)
9	Balance boards/wobble boards
10	Therapy steps or simulator
11	Finger ladder and shoulder wheel
12	Pegboards (for hand therapy)
13	Static cycle/bicycle ergometer
14	Treadmill (preferably medical grade)
15	Electrotherapy Equipment
16	Ultrasound therapy unit
17	Interferential therapy (IFT unit)
18	Transcutaneous Electrical Nerve Stimulation (TENS)
19	Wax bath unit
20	Hot pack unit
21	Cold pack unit
22	Laser therapy unit
23	Safety goggles for laser therapy
24	Exercise Therapy Equipment
25	Grip strengtheners and hand exercisers

## National Minimum Requirement for Health Facility Instrument and Equipment

26	Therabands, theratubes, therapy putty
27	Paediatric Rehabilitation Equipment
28	Neurological & Orthopaedic Rehabilitation Tools
29	Soft tissue and joint mobilization tools
30	Cervical and lumbar traction unit (manual or electric)
31	Orthotic fitting tools (for therapists)
32	Patient Assessment Tools
33	Dynamometers (handgrip strength, hand held dynamometer for UL, LL)
34	Goniometers (small, medium, large)
35	Inclinometers
36	Tape measure
37	Reflex hammer
38	BP machine and pulse oximeter (for cardiopulmonary patients) including stethoscope
39	Stopwatches and timers
40	Pain scales and mobility assessment forms
41	Posture grids or alignment charts
42	Advanced Specialized Equipment
43	Musculoskeletal ultrasound
44	Chest vibrators
	<b>Advanced Specialized Equipment</b>
1	Shockwave therapy machine**
2	CPM (Continuous Passive Motion) machine**
3	Spirometers and incentive breathing trainers (for chest physio) **
4	Hydrotherapy pool and accessories**
5	Virtual reality therapy system**
6	Standing frames and tilt tables**
7	Balance assessment tools (foam pads, Romberg stands) **
8	Mirror therapy equipment**
9	Coordination boards and finger dexterity aids**

## National Minimum Requirement for Health Facility Instrument and Equipment

10	Robotic-assisted rehab devices (e.g., for stroke patients) **
11	Tilt table with straps**
12	EMG biofeedback unit (if available) **
13	Gait trainer or dynamic support walker (body weight supported) **
14	Paediatric therapy balls and toys**
15	Crawling ramps and climbing structures**
16	Visual and auditory stimulation tools**
17	Paediatric therapy chairs and tables**
18	Paediatric walkers and standing frames**
19	Sensory integration equipment (swings, tunnels, textured mats) **
20	Foot rocker and ankle mobilizers**
21	Postural mirrors for alignment correction**
22	Medicine balls (various weights) **
23	Suspension therapy system (ropes, slings, ceiling hooks) **
24	Stationary pedal exerciser (tabletop and floor) **
25	Trampolines (small, for balance) **
26	Adjustable exercise benches**
27	Multi-gym pulley system or cable machine (including leg press) **
28	Infrared heat lamp**
29	Neuromuscular Electrical Stimulation (NMES)**
30	Shortwave diathermy/ microwave diathermy**
31	Wall-mounted pulley system**
32	Foam rollers and wedges**
<b>Speech therapy</b>	
	<b>Assessment Tool</b>
1	Standardized kits for: (Articulation GFTA, Receptive and expressive language CELF, PLS, Aphasia WAB, BDAE, Dysphagia assessment tools, Cognitive-communication disorders)
2	Information assessment tools (pictures, cards naming tools)
3	Articulation mirror (portable or wall-mounted)

## National Minimum Requirement for Health Facility Instrument and Equipment

4	Stopwatches and timers
5	Language sample recording sheets
6	Language sample recording sheets
7	Audio recorders / mobile devices (for analysis and playback)
8	Rating scales (e.g., Voice Handicap Index, Stuttering Severity Instrument)
9	Visual analogue scales (e.g., for voice and pain perception)
10	Therapy and stimulation materials
11	Voice therapy materials and apps
12	Fluency therapy materials and apps
13	Swallowing therapy equipments
14	Audiological Screening Tools
15	Tympanometer or otoscope
16	Basic hearing screening tools
17	Referral pathway or ENT exam
<b>Specialized Equipment</b>	
1	Electropalatographic (EPG – for advanced articulation work)
2	Biofeedback system (e.g., sEMG for swallowing)
3	Nasometer (for resonance disorders)
4	High-speed camera or stroboscope (ENT-assisted, for voice diagnostics)
5	AAC devices (speech-generating devices for non-verbal clients)
6	Eye-gaze communication systems
7	Head-mounted laser pointers for communication boards
8	Tactile feedback devices (vibration tools, oral-motor stimulators)
<b>Occupational Therapy</b>	
1	Functional Assessment Tools
2	Cognitive & Perceptual Therapy tools
3	Paediatric Therapy Tools
4	Assistive device and aids
<b>Strength and range of motion tools</b>	

## National Minimum Requirement for Health Facility Instrument and Equipment

1	Goniometer
2	Dynamometer
3	Pinch gauge
4	Inclinometer**
<b>Therapy Equipment</b>	
<i><b>Fine Motor Skills and Upper Limb rehabilitation</b></i>	
1	Therapy putty (various resistances)
2	Pegboards (vertical/horizontal)
3	Finger ladders and pinch exercisers
4	Hand grippers and therapy balls
5	Wrist and forearm exercisers
6	Cone stacking sets
7	Lacing boards and beading activities
8	Sand trays for tactile work
9	Magnetic boards, puzzles, shape sorters (for children)
10	Coordination boards (e.g., tracing, maze, threading)
11	Adjustable therapy tables and hand therapy stations**
<i><b>Gross Motor and Balance</b></i>	
1	Parallel bars
2	Therapy stairs with handrails
3	Balance boards and wobble cushions
4	Swiss balls and peanut balls
5	Trampolines (small/indoor use)
6	Mats (thick and anti-slip)
7	Crawling tunnels (paediatric use) **
8	Standing frames and tilt tables
9	Obstacle course components (cones, hurdles, etc.)
<b>ADL (Activities of Daily Living)</b>	
1	Simulated kitchen unit (sink, stove, storage) **

## National Minimum Requirement for Health Facility Instrument and Equipment

2	Adaptive cooking utensils and cutting boards**
3	Simulated bathroom (commode, shower seat, grab bars) **
4	Dressing aids (button hook, shoehorn, sock aid)
5	Feeding aids (built-up utensils, scoop plates, adaptive cups)
6	Grooming aids (long-handled comb, toothbrush with grip)
7	Bedroom setup (bed with side rails, dressing area) **
8	Laundry setup (simulated clothesline, folding station) **
9	Wheelchair-accessible workstations
<b>Sensory Integration Equipment</b>	
1	Sensory swings (hammock, platform, bolster)
2	Weighted blankets and vests
3	Tactile boards and textured mats
4	Light and sound stimulation tools
<b>Splinting &amp; Orthotic Tools</b>	
1	Standing Frame
2	Paediatric tricycle
3	Fiber Optic Filaments with Light Source
4	Rotating Star Projector Nightlight
5	Bailey Hand Assembly for Work Hardening
6	Tumble Forms II Jett mobile
7	Bailey Adjustable Weight Sled
8	Sensory Play Activity Panels
9	Marvelous Marble Therapy Wall Panel
10	Chrome Plated Knurled Grab Barrs
11	Swiss ball
<b>Advance equipment</b>	
1	Splinting workstation**
2	Thermoplastic splinting materials**
3	Heat pans for thermoplastics**

## National Minimum Requirement for Health Facility Instrument and Equipment

4	Straps, rivets, Velcro**
5	Bandage scissors and pliers**
6	Bandage scissors and pliers**
7	Pre-fabricated splints (optional)**
8	Vestibular System**
9	Dynamic Mobility system**
10	Vibration therapy tools**
11	Crash mats and foam pits**
12	Visual simulation tools (light panel, colour wheels) **
13	Sensory toys (spinners, fidget tools, chewable items) **

## Annex 4: Diagnostic Services

<b>DIAGNOSTIC SERVICES</b>	
<b>LABORATORY</b>	
<b>General Equipment</b>	
1	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
2	Freezer, laboratory, upright -20-degree, single door
3	Freezer, laboratory, upright -70-degree, single door
4	Centrifuge bench mounted
5	Centrifuge, hematocut with reader
6	Water bath
7	Autoclave for sterilization
8	Hot air oven,
9	Stirrer, magnetic, heated
10	Vortex mixer
11	MIXER, roller type, 5 rollers
12	Timer Laboratory, 60 Minutes
13	Distillation unit or deionized/distilled water system
14	Drying rack
15	Blood Bag Heat Sealer, Hand Held
16	Lab rotator
17	Lab, still, distilled water, 4 l/hr, wall mounted
18	Light, observation/examination, mobile
19	Wire loop, straight wire set
20	Thermometer for refrigerator
21	Tourniquets (Set)
22	BALANCER, electronic
23	Lab pipettor, full set
24	Autoclave for decontamination
25	Fume cabinet
26	Computer System and/or Barcode system (Monitor, Mouse, CPU, UPS, printer, CD reader, etc) in relevant sections
27	Backup power supply/UPS

National Minimum Requirement for Health Facility Instrument and Equipment

<b>Haematology and coagulation</b>	
1	Haematology Analyzer, fully automated,
2	ESR Analyzer
3	ESR stand and pipettes
4	Microscope, Binocular, Laboratory
5	Haemoglobin meter
6	Blood cell differential counter
7	Neubauer counting chamber
8	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
9	Analyzer, coagulation-automated
<b>Biochemistry</b>	
1	Biochemistry Analyzer
2	HbA1c analyzer
3	Colorimeter or spectrophotometer
4	Distillation unit or deionized/distilled water system
5	Micropipettes (variable volume)
6	Pipettes stand and tips
7	Vortex mixer
8	Centrifuge bench mounted
9	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
10	Refrigerator, Laboratory, -20 degree
11	Micro Pipets full set
<b>Microbiology</b>	
1	CABINET, Biological safety, Class II, Exhaust Required
2	CABINET, Biological safety, Class I, Exhaust Required
3	LAB, hot Plate
4	Laminar flow cabinet
5	Incubator, aerobic, bench mounted
6	Incubator, carbon dioxide, bench mounted
7	Colony counter
8	Anaerobic jar (if anaerobic culture is performed)
9	Loop sterilizer
10	Microscope, Binocular, Laboratory

## National Minimum Requirement for Health Facility Instrument and Equipment

11	Weight machine, digital
12	Timer
13	Hot plate
14	Autoclave for media preparation
15	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
16	Refrigerator, Laboratory, -20 degree
17	Vortex mixer
18	Magnifying glass with lamp
19	Automated Blood culture system
20	Bacteria Identification and susceptibility system
<b>Fluids and excretion</b>	
1	Automated urine analyzer
2	Centrifuge bench mounted
3	Microscope, Binocular, Laboratory
4	Water bath
5	Bunsen burner or any boiler
6	Timer
7	Neubauer Counting Chamber
<b>Serology and Immunology</b>	
1	Vortex mixer
2	Analyzer, immunology
3	ELISA reader and washer
4	Rapid test kits
5	Centrifuge (tabletop, small)
6	Lab rotator
7	Refrigerator, Laboratory, -20 degree
8	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
9	Timer
10	Micropipettes full set
<b>Molecular Biology</b>	
1	PCR extraction machine
2	PCR detection machine
3	Class 2 safety cabinet with UV transilluminator

## National Minimum Requirement for Health Facility Instrument and Equipment

4	Micropipettes full set
5	Refrigerator, Laboratory, -40 degree
6	Refrigerator, Laboratory, 700 litres, Single door, 2-8 degree
7	Centrifuge bench mounted
8	Micro centrifuge bench mounted
<b>Histopathology</b>	
1	Grossing station
2	Slides storage Cabinet
3	Block storage cabinet
4	Sample storage room
5	Digital weighing machine
6	Tissue processor
7	Cryostat**
8	Mounting station with cold plate
9	Heated paraffin embedding station
10	Microtome
11	Microscope, Binocular, Laboratory
12	Auto stainer or staining jars
13	Water bath
14	Hot plate
15	Immunohistochemistry stainer/ Staining Jars
16	LBC (Liquid Based Cytology) Processing system
17	Micropipettes full set
18	Distillation unit*
<b>Blood bank</b>	
<b>Pre Donation</b>	
1	Table and chair
2	Haemoglobin meter (hemocue)
3	Haemoglobin analyzer
4	Weighing scale
5	Height scale
6	Water dispenser

## National Minimum Requirement for Health Facility Instrument and Equipment

<b>Blood Collection</b>	
1	Donor couch/recliner
2	BP apparatus and stethoscope
3	Blood collection monitor with shaker
4	Tube sealer
5	Blood bag tube stripper
6	Thermometer
7	Apheresis machine with table**
8	Myo stand
9	IV stand
10	Dustbin (Bio hazard and General)
11	Ice Box
12	Table for Tube sealer
13	Storage cabinet
<b>Post Donation</b>	
1	Sofa and Table
<b>Component Preparation</b>	
1	Blood bag centrifuge
2	Plasma extractor
3	Plasma Thawing Bath
4	Digital weight scale
5	Sterile Tube connector
6	Platelet agitator
7	Safety Cabinet
8	Tube sealer
9	Tube Stripper
<b>Blood Storage</b>	
1	Blood bank refrigerator (2–6°C, with digital display and alarm)
2	Platelet incubator and agitator (for 22°C storage)
3	Deep freezer (-20°C plasma storage)
4	Deep freezer (for Icepack storage)
5	Temperature data logger or chart recorder
6	Backup power supply (UPS/generator)

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7	Temperature monitoring and alarm system
8	Ice Box (10 litre to 80 litre)
9	Ice Packs
10	Fridge Thermometer
11	SS Trolley
12	Storage cabinet
<b>Crossmatching and Compatibility Testing</b>	
1	Microscope
2	Centrifuge (bench-top, serological type)
3	Water bath (37°C, with temperature control)
4	Incubator (37°C, dry or moist)
5	Test tube racks and slides
6	Column agglutination technology with centrifuge and incubator
7	Sample storage fridge
<b>TTI screening</b>	
1	ELISA reader and washer
2	NAT testing**
3	RPR rotator
4	Centrifuge (bench-top, serological type)
5	Serological Analyzer
6	Sample storage fridge
7	Micropipettes full set
<b>RADIOLOGY</b>	
1	X-Ray machine
2	Portable X-ray unit
3	Digital Radiography (DR) system
4	Fluoroscopy system
5	C-Arm machine
6	Angiography Machine
7	CT Scanner (Computed Tomography)
8	MRI Scanner (Magnetic Resonance Imaging)
9	Ultrasound Machine
10	Mammography Machine

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11	Bone Densitometer (DEXA Scanner)
12	PET scanner **
13	SPECT/CT Scanner**
14	Gamma Camera (Planar Nuclear Imaging) **

## Annex 5: Support Services

<b>SUPPORT SERVICES</b>	
<b>LAUNDRY AND STERILIZATION UNIT</b>	
1	Laundry Washing Machine (size according to hospital load)
2	Dryer (Capacity 20-25kg)
3	Dryer (Capacity 10-15kg)
4	Folding Table
5	Linen Storage Cabinet
6	Packing Table
7	SS TROLLEY, contaminated linen.
8	SS TROLLEY, contaminated linen (for septic)
9	Wet Linen Trolley
10	Chemical Rack
11	Ironer
<b>Sterilization</b>	
1	Table to sterilizer
2	Autoclave
3	Wire baskets
4	Dressing drums
5	Heat resistant gloves
<b>CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)</b>	
1	RO water plant (for machineries)
<b>Decontamination Area</b>	
1	Working station with 3 sinks (final rinse sink should have ionized water) **
2	Air gun with nozzles**
3	Water gun with nozzles**
4	Instrument Cleaning Brushes
5	Drying Cabinet CSSD for tubing **
6	Washer disinfector (Double Door) with accessories**
7	- Loading and Unloading trolley
8	-Loading Racks (general, laparoscopy, and anaesthesia)

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9	- Washer indicator Holders
10	- SS washer baskets (wire basket)
11	Ultrasonic Cleaner/Washer**
12	Storage Rack (for washer Baskets)
13	SS TROLLEY, dressing/instrument (biohazard)
14	BIN/HOLDER infectious/pathological waste
15	Hermetic Trolley (CSSD, SS, 3 shelves, closed)
16	Computer System
17	Chairs
18	Phone
<b>Inspection, Assembling and Packing Area</b>	
1	RACK, wrapping paper, mobile**
2	Sorting & Packing Table
3	TABLE, CSSD, Control & packing
4	SS TROLLEY, dressing/instrument (For packing)
5	Illumination Table (WORKSTATION TABLE, CSSD, linen inspection)
6	Front or Top load table top sterilizer (10 to 20 L)
7	HEAT SEALING device, sterilization pouch, with paper guide**
8	Examination light with magnifying glass**
9	Sterilizer plasma gas low temperature double door**
10	Sterilizer steam double door
11	Transfer Carriage, Loading & Unloading
12	Loading Platform/Loading Frame
13	Wire baskets (CSSD)
14	Heat resistance Gloves
15	Sterilization containers (different sizes)
16	Steam microbial incubator for quality check**
17	Computer System
18	Chairs
19	Phone

20	Barcode Reader
21	Labeller Gun
22	Traceability System
	<b>Sterile Store</b>
1	Storage Racks (wired racks)
2	Heat resistance Gloves
3	Computer System
4	Chairs
5	Phone
6	Hermetic Trolley (CSSD, SS, 3 shelves, closed) for issuing
	<b>Indicators</b>
1	Washer indicators**
2	Ultrasonic Indicator**
3	Type 1 (process indicator) Steam and Plasma
4	Type 2 Bowie & Dick Test
5	Type 2 PCD Helix**
6	Type 5 (Integrated Chemical indicator)
7	Biological Indicator **
8	Handwashing Sinks (for each area)
9	BIN/HOLDER general (for each area)
10	Linen Hamper Cart
	<b>WASTE MANAGEMENT UNIT</b>
	<b>Colour coded waste bins</b>
1	Colour coded waste bins should be as per the national IPC standard
	<b>Waste bags (colour coded)</b>
1	High intensity plastic waste bags
2	Biohazard marked bags
	<b>Transport Equipment</b>
1	Closed trolley or wheeled carts (for internal waste transport)
2	Stretcher-type containers (for larger waste movement)
3	Stretcher-type containers (for larger waste movement)

	<b>Storage Area</b>
1	Smooth, washable floors and walls
2	Proper ventilation
3	Water supply for cleaning
4	Drainage system
5	Clear signage: “Biohazard Waste – Authorized Personnel Only”
6	Lighting and pest control measures
	<b>Treatment and Disposal Equipment</b>
	<b><i>For Infectious Waste</i></b>
1	Autoclave (steam-based sterilization)
2	Hydroclave (for waste volume reduction and sterilization)
3	Incinerator (if permitted and applicable – for pathological/cytotoxic waste)
4	Microwave or chemical disinfection unit (alternative to autoclaving)
	<b><i>For Sharp Waste</i></b>
1	Needle destroyer or cutter (optional)
2	Encapsulation unit or cementing barrel (for final disposal)
	<b><i>For General Waste</i></b>
1	Compactor
2	Waste shredder
	<b><i>For Cytotoxic Waste</i></b>
1	Spill proof cytotoxic waste container with (purple colour code) **
	<b>CENTRAL MEDICAL GAS SUPPLY UNIT</b>
	<b>Source Equipment</b>
	<b><i>Oxygen supply via one of the following:</i></b>
1	Liquid medical oxygen tank with vaporizer unit
2	Oxygen manifold with cylinder bank
	<b><i>Medical air compressor</i></b>
1	Oil free medical air compressor (with dryer and filters)
	<b><i>Vacuum pump system:</i></b>
1	Duplex/triplex medical vacuum pumps
2	Nitrous oxide bank
3	Carbon dioxide bank
4	Manifold system

	<b><i>Alarm System</i></b>
1	Area alarm panels
2	Master alarm panels
3	Low pressure/high pressure visual or audio alarm system
	<b>Pipeline Distribution System</b>
	<b><i>Medical Gas Pipelines</i></b>
1	Copper pipes (as per HTM/ISO standards)
2	Color-coded and labelled (e.g., white for O <sub>2</sub> , black for N <sub>2</sub> O, yellow for vacuum)
	<b><i>Zone valve boxes</i></b>
1	Installed outside patient care areas (e.g., ICU, OT)
2	With labelling and pressure gauges
	<b><i>Medical gas outlet terminals:</i></b>
1	Quick connect or pin-index outlets (for O <sub>2</sub> , air, vacuum, etc.)
2	Located at patient bedsides, ICUs, emergency rooms, OTs
	<b>COLD STORAGE</b>
	<b>Refrigeration Unit</b>
	<b><i>Refrigerators:</i></b>
1	Purpose-built vaccine refrigerators (2°C to 8°C)
2	Pharmaceutical-grade refrigerators (with uniform temperature control)
3	Domestic refrigerators (only for non-critical items if WHO/EPI compliant)
	<b><i>Freezers</i></b>
1	-20°C biomedical freezers (for plasma, reagents, etc.)
2	Ultra-low temperature (ULT) freezers (-40°C to -86°C) for special storage (e.g., certain vaccines, research samples)
3	Cold boxes and Vaccine carriers
4	Ice-lined refrigerators
	<b><i>Temperature Monitoring and Control</i></b>
1	Digital temperature data loggers
2	Dial or digital thermometers
3	Integrated temperature alarms (high/low alerts)
4	Automatic data recording system (optional, for compliance/auditing)
5	24/7 remote monitoring system (optional)
6	Temperature chart or logbook (manual backup)