

# Appendices



## Appendix I (a)

(Reference Paragraph 3.2.1)

### Shortfall or Excess Manpower in District Hospitals

Medical / Para-medics						
Sl. No.	Department/ Cadre	Essential norms (IPHS)	Gyalshing DH		Singtam DH	
			Available	Shortfall (-) / Excess (+)	Available	Shortfall (-) / Excess (+)
<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = c-d</i>	<i>f</i>	<i>g = c-f</i>
1	Medicine (Specialist)	2	2	0	3	+1
2	Surgery (-do-)	2	0	-2	0	-2
3	Anaesthesia (-do-)	2	1	-1	1	-1
4	Dental Surgeon	1	5	+4	7	+6
5	Radiology (-do-)	1	0	-1	0	-1
6	MO	11	3	-8	5	-6
7	MO (Ayush)	1	1	0	3	+2
8	Staff Nurse	45	36	-9	37	-8
9	Lab Tech.	6	5	-1	9	+3
10	Pharmacist	5	3	-2	2	-3
11	Storekeeper	1	1	0	0	-1
12	Radiographer	2	2	0	6	+4
13	Dietician	1	1	0	0	-1
14	CSSD Assistant	1	0	-1	0	-1
15	Social Worker	2	2	0	1	-1
16	Darkroom Assistant	2	1	-1	0	-2
17	Rehabilitation Therapist	1	0	-1	0	-1
18	Biomedical Engineer	1	1	0	0	-1

**Appendix I (b)**

(Reference Paragraph 3.2.2)

**Shortfall or Excess Manpower in New STNM Hospital**

Sl.	Particulars	IPHS norm for 500 BDH	Essential for 1000 BH (STNM) (pro rata)	Availability at STNM	Shortfall (-) Excess (+)
<i>a</i>	<i>b</i>	<i>c</i>	<i>d = 2xc</i>	<i>e</i>	<i>f</i>
<b>I</b>	<b>Specialist Services</b>				
1.	General Medicine	5	10	6	-4
2.	Gynaecology & Obstetric	6	12	6	-6
3.	Paediatrician	5	10	5	-5
4.	Orthopaedics	2	4	3	-1
5.	Surgeon	4	8	3	-5
6.	Anaesthesia	4	8	5	-3
7.	Psychiatrist	1	2	5	+3
8.	Pathology	4	8	8	0
9.	Radiology/Radiotherapy	2	4	4	0
10.	Forensic Specialist	1	2	0	-2
11.	Ophthalmology	2	4	3	-1
12.	Dermatology	1	2	4	+2
13.	Dental	3	6	18	+12
14.	ENT	2	4	5	+1
15.	Microbiology	1	2	5	+3
<b>II</b>	<b>Medical Officers</b>				
1.	MOs	23	46	72	+26
2.	MOs (Ayush)	02	04	03	-1
<b>III</b>	<b>Paramedics</b>				
1	Staff Nurse	225	450	305	-145
2	Lab Tech.	18	36	7	-29
3	Pharmacist	12	24	0	-24
4	Radiographer	9	18	2	-16
5	ECG Tech/Eco	5	10	4	-6
6	Audiometrician	1	2	1	-1
7	Optha Asst	1	2	5	+3
8	Physiotherapist	3	6	5	-1
9	Dietician	1	2	1	-1
10	OT Technician	14	28	2	-26
11	CSSD Assistant	3	6	0	-6
12	Social Worker	6	12	0	-12
13	Counsellor	2	4	0	-4
14	Dermatologist Technician	1	2	0	-2
15	Cyto-technician	1	2	0	-2
16	PFT Technician	2	2	0	-2
17	Dental Technician	3	6	0	-6
18	Darkroom Assistant	9	18	0	-18
19	Rehabilitation Therapist	3	6	1	-5

Source: Information provided by hospital

### Appendix II (a)

#### Availability of Equipment in District Hospital (100 Bedded), Singtam (Reference: Para 3.4.1)

(Equipment with asterisk marks are desirable Equipment)

Name of equipment	Norm	Actual	Shortfall
<b>1. Imaging Equipment</b>			
500 M.A. x-ray machine*	---	-	-
300 M.A. x-ray machine	1	-	1
100 M.A. x-ray machine	1	1	-
60 M.A. x-ray machine (Mobile)	---	--	
Dental x-ray machine	1	-	1
Colour Doppler Ultrasound machine with 4 probes: Abdomen, Paediatric, Soft Parts and Intra-cavitary Ultra Sonogram (Obs & Gyne. department should be having a separate ultra-sound machine of its own)	1 + 1	-	2
Mammography Unit*	----		
Total =	<b>5</b>	<b>1</b>	<b>4</b>
<b>2. X-ray Room Accessories</b>			
X-ray developing tank	1	1	-
Safe light x-ray dark room	2	1	1
Cassettes x-ray	12	6	6
X-ray lobby single	6	-	6
X-ray lobby Multiple	1	-	1
Lead Apron	2	2	-
Intensifying screen x-ray	1	1	-
Dosimeter*	--	--	
Total	<b>25</b>	<b>11</b>	14
<b>3. Cardiopulmonary Equipment</b>			
ECG machine computerized	1	-	1
ECG machine ordinary	1	1	-
12 Channel stress ECG test equipment Tread Mill*	----	-	-
Echocardiography Machine	----	-	-
Cardiac Monitor	4	-	4
Cardiac Monitor with defibrillator	2	-	2
Ventilators (Adult)	2	--	2
Ventilators (Paediatrics)	1	-	1
Pulse oximeter	3	-	3
Pulse Oximeter with NIB.P*	1	-	1
Infusion pump	2	-	2
B.P.apparatus table model	15	1	14
B.P.apparatus stand model	15	1	14
Stethoscope	20	1	19
Nebuliser	1	1	-
Peak Expiratory Flow Rate (PEFR) Meter (Desirable)	1	-	1
Total	<b>69</b>	<b>5</b>	64
<b>4. Labour Ward, Neo-natal Equipment</b>			
Baby Incubators	1	-	1
Phototherapy Unit	2	-	2
Emergency Resuscitation Kit-Baby	2	1	1
Standard weighing scale (each for the labour room & OT)	1	1	-
Newborn Care equipment (1 set each for labour room & OT)	1	1	-
Double-outlet Oxygen Concentrator (each for the labour room & OT)	1	-	1
Radiant Warmer	2	1	1
Room Warmer	2	-	2
Foetal Doppler	2	-	2
Cardio Toco Graphy Monitor	2	-	2
Delivery Kit	10	4	6
Episiotomy kit	2	2	-
Forceps Delivery Kit	2	1	1

Name of equipment	Norm	Actual	Shortfall
Crainotomy	1	-	1
Vacuum extractor metal	2	1	1
Silastic vacuum extractor	2	1	1
Pulse Oxymeter baby & adult	1 each	1	-
Cardiac monitor baby & adult	1	-	1
Nebulizer baby	2	1	1
Weighing machine adult	3	1	2
Weighing machine infant	3	0	3
CPAP Machine	-	-	-
Head box for oxygen	4	-	4
Haemoglobinometer	1	-	1
Glucometer	1	-	1
Public Address System	1	-	1
Wall Clock	1	1	-
BP Apparatus & Stethoscope	2+2	1	3
<b>Total</b>	<b>57</b>	<b>18</b>	<b>39</b>
<b>Equipment for Eclampsia Room (required only for 300-500 bedded Hospitals)</b>			
ICU Beds	2	<b>Not applicable for 100 bedded hospital</b>	
Emergency Resuscitation Tray (Adult) including intubation equipment	3		
BP Apparatus	3		
Cardiac Monitor	2		
Pulse oximeter	2		
Airway (Female)	2		
Nebuliser	1		
Oxygen Supply (Central)	2		
Suction Apparatus (Electrical)	2		
Suction Apparatus (Foot)	1		
Wall Clock	1		
Torch	1		
Emergency Call Bell	2		
Stethoscope	2		
<b>5. Equipment for Special Newborn Care Unit (SNCU)</b>			
General			
Electronic weighing scale	5	1	4
Infantometer	5	1	4
Emergency drugs trolley	5	1	4
Procedure trolley	5	1	4
Wall clock with seconds hand ( for each room)	1	1	-
Refrigerator (for the unit)	1	-	1
Spot lamp	5	1	4
Portable x-ray machine (for the unit)	1	-	1
Basic surgical instruments e.g. fine scissors, scalpel with blades, fine artery forceps, suture material & needles, towel, clips etc. (set per bed)	1	-	1
Nebuliser (for the unit)	1	1	-
Room Thermometer	4	1	3
<b>Total</b>	<b>34</b>	<b>8</b>	<b>26</b>
<b>Equipment for disinfection of SNCU</b>			
Electric heater/boiler	2	1	1
Washing machine with dryer (separate)	1	-	1
Electronic Fumigator	2	-	2
Vacuum Cleaner	1	-	1
Gowns for doctors, nurses, neonatal aides, Group D staff & mothers (adequate number for each size)			
Washable slippers (adequate number for each size)	Essen-tial		
Vertical Autoclave	1	-	1
Autoclave drums (large & medium & small sizes) (of each size)	6	6	-
Disinfectant Sprayer	1	-	1
Container for liquid disinfectant	2	-	2
Formalin Vaporizer	1	-	1
<b>Total</b>	<b>17</b>	<b>7</b>	<b>10</b>

Name of equipment	Norm	Actual	Shortfall
<b>Equipment for individual patient care in SNCU</b>			
Servo-controlled Radiant Warmer (1 for each bed plus 2 extra)	1	1	-
Low-Reading Digital Thermometer (centigrade scale) (1 for each bed)	1	-	1
Neonatal Stethoscope (1 for each bed plus 2 extra)	1	1	-
Neonatal Resuscitation Kit (Laerdal type, Silicone, Autoclavable 240 ml, 450 ml resuscitation bag with valves-including pressure release valve), oxygen reservoir & silicone round cushion masks – sizes 0 & 00), Neonatal laryngoscope with straight blade and spare bulbs) (1 set for each bed plus 2 extra)	1	1	-
Suction Machine (for each bed, 80% electronically operated and 20% foot operated)	1	1	-
Oxygen Hood (unbreakable-neonatal/ infant size) (for each bed plus 20% extra)	1	1	-
Non stretchable measuring tape (mm scale) (for each bed)	1	-	1
Infusion pump or syringe pump (for every 2 beds)	1	1	-
Pulse Oxymeter (for every 2 beds)	1	1	-
Double Outlet Oxygen Concentrator (for every 3 beds)	1	1	-
Double Sided Blue Light Phototherapy (for every 3 beds)	1	1	-
CENTRAL AC (8 air exchange per hour)		-	
Generator (15 KVA)	1	-	1
CFL Phototherapy (for every 3 beds)	1	1	
Horizontal Laminar Flow	1	-	1
Total	14	10	4
<b>6. Immunisation Equipment</b>			
ILR & DF with Stabilizer	2 each for RI plus one for LR	2	-
Spare ice pack box (for each equipment)	1	1	-
Room Heater/Cooler for immunization clinic with electrical fittings	As per need	No	-
Waste disposal twin bucket, hypochlorite solution/bleach (per ILR, bimonthly)	2	2 set	-
Freeze Tag	Need Based	-	-
Thermometers Alcohol (stem)	2	2	-
Almirah for Vaccine logistics	2	-	2
Almirah for vaccine logistics	1	-	1
Immunization table	5	1	4
Chair for new staff proposed	3	3	-
Stools for immunization room	2	2	-
Bench for waiting area	1	1	-
Dustbin with lid (for each equipment)	1	1	-
Water container	1	1	-
Hub cutters	2	2	-
5 KVA Generator with POL for immunization purpose (If hospital has other Generator for general purpose this is not needed.)	1	1	-
Total	26	19	7
<b>7. Ear, Nose, Throat Equipment</b>			
Audiometer	1	-	1
Impedance Audiometer	-	-	-
Operating Microscope (ENT)	2	-	2
Head light (ordinary) (Boyle Davis)	1	-	1
ENT Operation set including headlight, Tonsils	1	-	1
Ear Surgery Instruments set	1	1	-
Mastoid set	1	-	1
Micro Ear Set myringoplasty	1	1	-
Stapedotomy Set	1	-	1
Micro drill System set		-	-
ENT Nasal Set (SMR, Septoplasty, Nasal Endoscopic Set (o &	1	1	-

Name of equipment	Norm	Actual	Shortfall
30 degree) Polypectomy, DNS, Rhinoplasty)			
Laryngoscope fibreoptic ENT	2	-	2
Laryngoscope direct	1	-	1
Otoscope	1	-	1
Oesophagoscope Adult (Desirable)	1	-	1
Oesophagoscope Child (Desirable)	1	-	1
Head Light (cold light)	1	-	1
Tracheostomy Set	1	-	1
Tuning fork	1	-	1
Examination instruments set (speculums, tongue depressors, mirrors, Bull's lamp)	1	1	-
Total	20	4	16
<b>8. Eye Equipment</b>			
Cryo Surgery Unit with retina probe	1	-	1
Ophthalmoscope – Direct + Indirect	1 + 1	1+1	-
Slit Lamp	1	1	-
Retino scope	1	1	-
Perimeter	1	-	1
Binomags	1	-	1
Distant Vision Charts	1	1	-
Near Vision Chart	1	-	1
Colour Vision Chart	1	-	1
Foreign Body spud and needle	1	1	-
Lacrimal cannula and probes	1	1	-
Lid retractors (Desmarres)	1	1	-
Punctum Dilator	1	1	-
Rotating Visual acuity drum	1	1	-
Torch	1	1	-
Trial Frame Adult/Children	1	1	-
Trial lens set	1	1	-
IOL Operation set	2	1	1
YAG Laser	1	-	1
Operating Microscope	1	1	-
A-Scan Biometer	1	1	-
Keratometer	1	1	-
Auto Refractometer	1	1	-
Flash Autoclave	1	1	-
Phacomachine	---	-	-
Total =	26	19	7
<b>9. Operation Theatre Equipment</b>			
Auto Clave HP Horizontal	1 In CSSD	1	-
Auto Clave HP Vertical (2 bin)	2 In CSSD	-	2
Operation Table Ordinary Paediatric*			
Operation Table Hydraulic Major	2	1	1
Operation table Hydraulic Minor	2	-	2
Operating table non-hydraulic field type	1	-	1
Operating table Orthopedic*			
Autoclave with Burners 2 bin*			
Autoclave vertical single bin	1	-	1
Shadowless lamp ceiling type major*	1	1	-
Shadowless lamp ceiling type minor*	1	-	1
Shadowless Lamp stand model	1	-	1
Focus lamp Ordinary	2	-	2
Sterilizer (Big instruments)	2	-	2
Sterilizer (Medium instruments)	3	-	3
Sterilizer (Small instruments)	3	-	3
Bowl Sterilizer Big	2	-	2
Bowl Sterilizer Medium	1	-	1
Diathermy Machine (Electric Cautery)	1	1	-
Suction Apparatus - Electrical	4	3	1
Suction Apparatus - Foot operated	3	-	3
Dehumidifier*	1	-	1

Name of equipment	Norm	Actual	Shortfall
Ultra violet lamp philips model 4 feet	4	-	4
Ethylene Oxide Sterilizer*	---	-	-
<b>Microwave Sterilizer*</b>	1	-	1
Intense Pulse Light Machine	-	-	-
Total =	<b>39</b>	7	32
<b>10. Laboratory Equipment</b>			
Binocular Microscope	6	2	4
Chemical Balances	2	-	2
Simple balances	2	-	2
Electric Calorimeter	2	-	2
Fully Automated Auto-analyser	-	-	-
Semi auto analyser	1	1	-
Micro pipettes of different volumes	10	5	5
Water bath	2	1	1
Hot Air oven	3	1	2
Lab Incubator	3	1	2
Distilled water Plant	2	1	1
Electric centrifuge, table top	3	1	2
Cell Counter electronic	1	1	-
Hot plates	3	-	3
Rotor/Shaker	3	1	2
Counting chamber	3	1	2
PH meter	2	-	2
Paediatric Glucometer/ Bilirubinometer		-	
Glucometer	1+1	-	2
Haemoglobinometer	2	1	1
TCDC count apparatus	1	-	1
ESR stand with tubes	4	4	-
Test Tube Stands	6	6	-
Test Tube Rack	6	5	1
Test Tube Holders	6	5	1
Spirit Lamp	8	1	7
Rotary Microtome	1	-	1
Wax Embed Bath	-	-	-
Auto Embedic Station	-	-	-
Timer stop watch	2	1	1
Alarm clock	1	-	1
Elisa Reader cum washer	1	-	1
Blood gas analyser	1	-	1
Electrolyte Analyser	1	1	-
Glycosylated Haemoglobinometer	1	-	1
Blood Bank Refrigerator	3	-	3
Haematology Analyser with 22 parameters	1	-	1
Blood Collection Monitor	1	-	1
Laboratory Autoclaves	3	-	3
Blood Bank Refrigerator	4	-	4
Ordinary Refrigerator	3	2	1
Floatation Bath	1	-	1
Emergency Drug Trolley with auto cylinder	1	-	1
Dialacted tube scaler			
Class – I Bio Safety Cabinet	1	-	1
Knife Sharpner	1	-	1
Air Conditioner with Stabilizer	1	1	-
Cyto Spin	1	-	1
Ro Plant	1	-	1
Computer with UPS and Printer	1	1	-
Automatic Blood Gas Analyzer	1	-	1
Fine Needle Aspiration Cytology	1	-	1
Histopathology Equipment	1	-	1
Pipette – 1 ml & 5 ml Burette 10 ml Conical Flask Biker/ Glass bottles Glass or plastic funnel Glass stirring rod Small stainless steel bowl		-	

Name of equipment	Norm	Actual	Shortfall
Electronic weighing scale Measuring cylinder Gas Burner Laboratory balance Stop watch, Cyclomixer Micro pipette 10-100 ml :10-200 ml Micro tips Centrifuge, Oven Bath Serological Digital calorie meter Stirrer with stainless steel stirring rod Digital electronic temperature controller			
i. Ion – meter Table Top (specific for fluoride estimation in biological fluid) ii. Table Top Centrifuge without refrigeration iii. Digital PH Meter iv. Metaler Balance v. Mixer vi. Incubator vii. Pipettes/Micropipettes			
CO Analyser	1	1	-
Whole Blood Finger Prick HIV Rapid Test and STI Screening Test each	1	-	1
Blood Component Separator	---		
Platelet Agitator	---		
Platelet Thawing Machine	---		
Laminar Flow	---		
Total	119	45	74
<b>11. Surgical Equipment Set</b>			
P.S. set	2	-	2
MTP Set (Including Suction Cannula size 6-12)	2	-	2
Biopsy Cervical Set*	1	-	1
EB Set	2	-	2
Microscope (Gynae for wet smear and PCT )	-	-	-
D&C Set	2	-	2
I.U.C.D. Kit	2	-	2
LSCS set	2	2	-
MVA kit	2	-	2
Vaginal Hysterectomy	2	-	2
Proctoscopy Set*	2	-	2
P.V. Tray*	2	-	2
Abdominal Hysterectomy set	2	1	1
Laparotomy Set	2	-	2
Formaline dispenser	3	-	3
Kick Bucket	8	-	8
General Surgical Instrument Set Piles, Fistula, Fissure*	2	-	2
Knee hammer	5	-	5
Hernia, Hydrocele*	2	-	2
Varicose vein etc.*	1	-	1
Gynaec Electric Cautery	1	1	-
Vaginal Examination set*	8	-	8
Suturing set*	5	-	5
MTP suction apparatus	1	-	1
Thoracotomy set		-	
Neuro Surgery Craniotomy Set		-	
I M nailing kit	1	-	1
SP Nailing	1	-	1
Compression Plating Kit*	1	-	1
AM Prosthesis*		-	
Dislocation Hip Screw Fixation*		-	
Fixation Fracture Hip	1	-	1
Spinal Column Back Operation Set		-	
Thomas Splint	7	-	7
Paediatric Surgery Set	1	-	1
Mini Surgery Set*	2	-	2

Name of equipment	Norm	Actual	Shortfall
Urology Kit	1	-	1
Surgical Package for Cholecystectomy*	---	-	
Surgical package for Thyroid	---	-	
GI Operation Set*	2	-	2
Appendicectomy set*	2	-	2
L. P. Tray*	5	-	5
Urethral Dilator Set	4	-	4
TURP Resectoscope*	1	-	1
Haemodialysis Machine*	---	-	
Amputation set	1	-	1
Universal Bone Drill	---	-	
Crammer wire splints	8	-	8
Minilap sets-3	3	-	3
NSV sets-3	3	-	3
Colposcope	1	-	1
Cryoprobe	1	-	1
Skin Biopsy Sets	1	-	1
Total	108	4	104
<b>12. PMR Equipment</b>			
Skeleton Traction Set	3	1	2
Interferential Therapy Unit	2	-	2
Short Wave Diathermy	1	1	-
Hot packs & Hydro collator*		-	
Exercise Table*			
Static Cycle*			
Medicine ball*			
Quadriiceps exerciser*		-	
Coordination Board*		-	
Hand grip strength measurement Board*		-	
Kit for Neuro-development assessment*		-	
CBR Manual*		-	
ADL Kit & hand exerciser*		-	
Multi Gym Exerciser*			
Self Help devices*		-	
Wheel chair*		-	
Crutches/Mobility device sets*		-	
Hot air oven	2	-	2
Hot air gun	2	-	2
Grinder	2	-	2
Sander	2	-	2
Router*		-	
Power Drill*		-	
Band saw*		-	
Vacuum Forming Apparatus*		-	
Lathe*		-	
Welding machine*		-	
Buffing & polishing machine*		-	
Work Table	2	2	-
Tools and raw material*		-	
Total	16	4	12
<b>13. Endoscopy Equipment</b>			
Endoscope fibre Optic (OGD)*	---	-	
Arthroscope	---	-	
Operating Laproscope complete for laproscopic surgery	---	-	
Laparoscope diagnostic and for sterilisation*	1	-	1
Colonoscope and Sigmoidoscope*	---	-	
Hysteroscope*	1	-	1
Colposcope*	1	-	1
Total	3	0	3
<b>14. Anaesthesia Equipment</b>			
Anesthetic – laryngoscope magills with four blades	3	3	-

Name of equipment	Norm	Actual	Shortfall
Endo Tracheal Tubes Sets	2	1	1
Magills Forceps (two sizes)	6	2	4
Connector set of six for ETT	6	1	5
Tubes connecting for ETT	6	1	5
Air way female*	10	2	8
Air way male*	20	2	18
Mouth prop*	8	-	8
Tongue Depressors*	10	1	9
O <sub>2</sub> cylinder for Boyles	10	5	5
N <sub>2</sub> O Cylinder for Boyles	10	5	5
CO <sub>2</sub> cylinder for laparoscope*		-	
PFT machine	1	-	1
Anaesthesia machine with ventilator (desirable)/ Boyles Apparatus with Fluotec and circle absorber	2	1	1
Multi-parameter monitor	2	2	-
Pipe line supply of Oxygen, Nitrous Oxide, Compressed Air and suction (desirable)		-	
Defibrillators	1	-	1
Infusion pumps*		-	
Regional anaesthesia devices*		-	
O <sub>2</sub> therapy devices*		-	
Exchange Transfusion Sets*		-	
Recovery Area		-	
O <sub>2</sub> Therapy Devices*		-	
Pipe line supply of Oxygen and Suction (desirable)*		-	
Monitor*		-	
Patient Trolley*		-	
Total =	97	26	71
<b>15. Post Mortem Equipment</b>			
Mortuary table (Stainless steel)*	2	-	2
P.M.equipment (list)	4	-	4
Weighing machines (Organs)	2	-	2
Measuring glasses (liquids)	3	-	3
Aprons*	10	2	8
PM gloves (Pairs)*	10	-	10
Rubber sheets*		-	
Lens	2	-	2
Spot lights	2	-	2
Total	35	2	33
<b>Grand Total =</b>	<b>710</b>	<b>190</b>	<b>520</b>

### Appendix II (b)

#### Availability of Equipment in District Hospital (100 Bedded) Gyalshing (Reference: Para- 3.4.1)

(Equipment with asterisk marks are desirable Equipment)

Name of equipment	Norm	Actual	Shortfall
<b>1. Imaging Equipment</b>			
500 M.A. x-ray machine*	---	-	-
300 M.A. x-ray machine	1	-	1
100 M.A. x-ray machine	1	-	1
60 M.A. x-ray machine (Mobile)	--	--	
Dental x-ray machine	1	1	
Colour Doppler Ultrasound machine with 4 probes: Abdomen, Paediatric, Soft Parts and Intra-cavitary Ultra Sonogram (Obs & Gyne. department should be having a separate ultra-sound machine of its own)	1 + 1	2	-
Mammography Unit*	----		
Total =	5	3	2
<b>2. X-ray Room Accessories</b>			
X-ray developing tank	1	1	-
Safe light x-ray dark room	2	2	-
Cassettes x-ray	12	12	-
X-ray lobby single	6	6	-
X-ray lobby Multiple	1	1	-
Lead Apron	2	2	-
Intensifying screen x-ray	1	1	-
Dosimeter*		--	-
Total	25	25	0
<b>3. Cardiopulmonary Equipment</b>			
ECG machine computerized	1	-	1
ECG machine ordinary	1	1	-
12 Channel stress ECG test equipment Tread Mill*	----	-	-
Echocardiography Machine	----	-	-
Cardiac Monitor	4	2	2
Cardiac Monitor with defibrillator	2	-	2
Ventilators (Adult)	2	--	2
Ventilators (Paediatrics)	1	-	1
Pulse oximeter	3	3	-
Pulse Oximeter with NIB.P*	1	-	1
Infusion pump	2	2	-
B.P. apparatus table model	15	15	-
B.P. apparatus stand model	15	--	15
Stethoscope	20	20	-
Nebuliser	1	-	1
Peak Expiratory Flow Rate (PEFR) Meter (Desirable)	1	-	1
Total	69	43	26
<b>4. Labour Ward, Neo-natal Equipment</b>			
Baby Incubators	1	-	1
Phototherapy Unit	2	2	-
Emergency Resuscitation Kit-Baby	2	2	-
Standard weighing scale (each for the labour room & OT)	1	1	-
Newborn Care equipment (1 set each for labour room & OT)	1	1	-
Double-outlet Oxygen Concentrator (each for the labour room & OT)	1	1	-
Radiant Warmer	2	2	-
Room Warmer	2	2	-
Foetal Doppler	2	-	2
Cardio Toco Graphy Monitor	2	-	2
Delivery Kit	10	10	-
Episiotomy kit	2	2	-
Forceps Delivery Kit	2	2	-

Name of equipment	Norm	Actual	Shortfall
Crainotomy	1	1	-
Vacuum extractor metal	2	2	-
Silastic vacuum extractor	2	2	-
Pulse Oxymeter baby & adult	1 each	1	-
Cardiac monitor baby & adult	1	-	1
Nebuliser baby	2	2	-
Weighing machine adult	3	3	-
Weighing machine infant	3	3	-
CPAP Machine	-	-	-
Head box for oxygen	4	4	-
Haemoglobinometer	1	1	-
Glucometer	1	1	-
Public Address System	1	1	-
Wall Clock	1	1	-
BP Apparatus & Stethoscope	2+2	4	-
<b>Total</b>	<b>57</b>	<b>51</b>	<b>6</b>
<b>Equipment for Eclampsia Room (required only for 300-500 bedded Hospitals)</b>			
ICU Beds	2	<b>Not applicable for 100 bedded hospital</b>	
Emergency Resuscitation Tray (Adult) including intubation equipment	3		
BP Apparatus	3		
Cardiac Monitor	2		
Pulse oximeter	2		
Airway (Female)	2		
Nebuliser	1		
Oxygen Supply (Central)	2		
Suction Apparatus (Electrical)	2		
Suction Apparatus (Foot)	1		
Wall Clock	1		
Torch	1		
Emergency Call Bell	2		
Stethoscope	2		
<b>5. Equipment for Special Newborn Care Unit (SNCU)</b>			
General			
Electronic weighing scale	5	-	5
Infantometer	5	-	5
Emergency drugs trolley	5	1	4
Procedure trolley	5	-	5
Wall clock with seconds hand ( for each room)	1	-	1
Refrigerator (for the unit)	1	1	-
Spot lamp	5	-	5
Portable x-ray machine (for the unit)	1	-	1
Basic surgical instruments e.g. fine scissors, scalpel with blades, fine artery forceps, suture material & needles, towel, clips etc. (set per bed)	1	-	1
Nebuliser (for the unit)	1	1	-
Room Thermometer	4	1	3
<b>Total</b>	<b>34</b>	<b>4</b>	<b>30</b>
<b>Equipment for disinfection of SNCU</b>			
Electric heater/boiler	2	2	0
Washing machine with dryer (separate)	1	-	1
Electronic Fumigator	2	-	2
Vacuum Cleaner	1	-	1
Gowns for doctors, nurses, neonatal aides, Group D staff & mothers (adequate number for each size)			
Washable slippers (adequate number for each size)	-		
Vertical Autoclave	1	-	1
Autoclave drums (large & medium & small sizes) (of each size)	6	-	6
Disinfectant Sprayer	1	-	1
Container for liquid disinfectant	2	-	2
Formalin Vaporizer	1	-	1

Name of equipment	Norm	Actual	Shortfall
Total	17	2	15
<b>Equipment for individual patient care in SNCU</b>			
Servo-controlled Radiant Warmer (1 for each bed plus 2 extra)	1	1	-
Low-Reading Digital Thermometer (centigrade scale) (1 for each bed)	1	1	-
Neonatal Stethoscope (1 for each bed plus 2 extra)	1	1	-
Neonatal Resuscitation Kit (Laerdal type, Silicone, Autoclavable 240 ml, 450 ml resuscitation bag with valves-including pressure release valve), oxygen reservoir & silicone round cushion masks – sizes 0 & 00), Neonatal laryngoscope with straight blade and spare bulbs) (1 set for each bed plus 2 extra)	1	1	-
Suction Machine (for each bed, 80% electronically operated and 20% foot operated)	1	1	-
Oxygen Hood (unbreakable-neonatal/ infant size) (for each bed plus 20% extra)	1	1	-
Non stretchable measuring tape (mm scale) (for each bed)	1	1	-
Infusion pump or syringe pump (for every 2 beds)	1	1	-
Pulse Oxymeter (for every 2 beds)	1	1	-
Double Outlet Oxygen Concentrator (for every 3 beds)	1	1	-
Double Sided Blue Light Phototherapy (for every 3 beds)	1	1	-
CENTRAL AC (8 air exchange per hour)		-	
Generator (15 KVA)	1	-	1
CFL Phototherapy (for every 3 beds)	1	1	
Horizontal Laminar Flow	1	-	1
Total	14	12	2
<b>6. Immunisation Equipment</b>			
ILR & DF with Stabilizer	2 each for RI plus one for LR	1	1
Spare ice pack box (for each equipment)	1	1	-
Room Heater/Cooler for immunization clinic with electrical fittings	As per need	No	-
Waste disposal twin bucket, hypochlorite solution/bleach (per ILR, bimonthly)	2	2	-
Freeze Tag	Need Based	-	-
Thermometers Alcohol (stem)	2	2	-
Almirah for Vaccine logistics	2	2	-
Almirah for vaccine logistics	1	1	-
Immunization table	5	5	-
Chair for new staff proposed	3	3	-
Stools for immunization room	2	2	-
Bench for waiting area	1	1	-
Dustbin with lid (for each equipment)	1	1	-
Water container	1	-	1
Hub cutters	2	2	-
5 KVA Generator with POL for immunization purpose (If hospital has other Generator for general purpose this is not needed.)	1	1	-
Total	26	24	2
<b>7. Ear, Nose, Throat Equipment</b>			
Audiometer	1	-	1
Impedance Audiometer	-	-	-
Operating Microscope (ENT)	2	-	2
Head light (ordinary) (Boyle Davis)	1	-	1
ENT Operation set including headlight, Tonsils	1	1	-
Ear Surgery Instruments set	1	-	1
Mastoid set	1	-	1
Micro Ear Set myringoplasty	1	-	1
Stapedotomy Set	1	-	1
Micro drill System set		-	-
ENT Nasal Set (SMR, Septoplasty, Nasal Endoscopic Set (o & 30 degree) Polypetomy, DNS, Rhinoplasty)	1	-	1

Name of equipment	Norm	Actual	Shortfall
Laryngoscope fibreoptic ENT	2	-	2
Laryngoscope direct	1	1	-
Otoscope	1	1	-
Oesophagoscope Adult	1	-	1
Oesophagoscope Child	1	-	1
Head Light (cold light)	1	-	1
Tracheostomy Set	1	-	1
Tuning fork	1	1	-
Examination instruments set (speculums, tongue dipressors, mirrors, Bull's lamp)	1	1	-
<b>Total</b>	<b>20</b>	<b>5</b>	<b>15</b>
<b>8. Eye Equipment</b>			
Cryo Surgery Unit with retina probe	1	-	1
Ophthalmoscope – Direct + Indirect	1 + 1	1+1	-
Slit Lamp	1	1	-
Retino scope	1	1	-
Perimeter	1	-	1
Binomags	1	-	1
Distant Vision Charts	1	1	-
Near Vision Chart	1	1	-
Colour Vision Chart	1	1	-
Foreign Body spud and needle	1	1	-
Lacrimal cannula and probes	1	1	-
Lid retractors (Desmarres)	1	1	-
Punctum Dilator	1	1	-
Rotating Visual acuity drum	1	1	-
Torch	1	1	-
Trial Frame Adult/Children	1	1	-
Trial lens set	1	1	-
IOL Operation set	2	1	1
YAG Laser	1	-	1
Operating Microscope	1	1	-
A-Scan Biometer	1	1	-
Keratometer	1	-	1
Auto Refractometer	1	1	-
Flash Autoclave	1	1	-
Phacomachine	---	-	-
<b>Total =</b>	<b>26</b>	<b>20</b>	<b>6</b>
<b>9. Operation Theatre Equipment</b>			
Auto Clave HP Horizontal	1 In CSSD	1	-
Auto Clave HP Vertical (2 bin)	2 In CSSD	2	-
Operation Table Ordinary Paediatric*			
Operation Table Hydraulic Major	2	2	-
Operation table Hydraulic Minor	2	2	-
Operating table non-hydraulic field type	1	-	1
Operating table Orthopedic*			
Autoclave with Burners 2 bin*			
Autoclave vertical single bin	1	1	-
Shadowless lamp ceiling type major*	1	1	-
Shadowless lamp ceiling type minor*	1	1	-
Shadowless Lamp stand model	1	1	-
Focus lamp Ordinary	2	2	-
Sterilizer (Big instruments)	2	-	2
Sterilizer (Medium instruments)	3	3	-
Sterilizer (Small instruments)	3	3	-
Bowl Sterilizer Big	2	-	2
Bowl Sterilizer Medium	1	-	1
Diathermy Machine (Electric Cautery)	1	1	-
Suction Apparatus - Electrical	4	4	-
Suction Apparatus - Foot operated	3	3	-
Dehumidifier*	1	-	1
Ultra violet lamp philips model 4 feet	4	-	4

Name of equipment	Norm	Actual	Shortfall
Ethylene Oxide Sterilizer*	---	-	-
Microwave Sterilizer*	1	-	1
Intense Pulse Light Machine	-	-	-
Total =	39	27	12
<b>10. Laboratory Equipment</b>			
Binocular Microscope	6	5	1
Chemical Balances	2	1	1
Simple balances	2	1	1
Electric Calorimeter	2	1	1
Fully Automated Auto-analyser	-	-	-
Semi auto analyser	1	1	-
Micro pipettes of different volumes	10	10	-
Water bath	2	1	1
Hot Air oven	3	3	-
Lab Incubator	3	3	-
Distilled water Plant	2	1	1
Electricentrifuge, table top	3	3	-
Cell Counter electronic	1	-	1
Hot plates	3	1	2
Rotor/Shaker	3	2	1
Counting chamber	3	3	-
PH meter	2	-	2
Paediatric Glucometer/ Bilirubinometer		-	
Glucometer	1+1	2	-
Haemoglobinometer	2	1	1
TCDC count apparatus	1	-	1
ESR stand with tubes	4	4	-
Test Tube Stands	6	6	-
Test Tube Rack	6	6	-
Test Tube Holders	6	-	6
Spirit Lamp	8	-	8
Rotatry Microtome	1	-	1
Wax Embel Bath	-	-	-
Auto Embedic Station	-	-	-
Timer stop watch	2	2	-
Alarm clock	1	1	-
Elisa Reader cum washer	1	1	-
Blood gas analyser	1	-	1
Electrolyte Analyser	1	1	-
Glycosylated Haemoglobinometer	1	1	-
Blood Bank Refrigerator	3	3	-
Haematology Analyser with 22 parameters	1	1	-
Blood Collection Monitor	1	1	-
Laboratory Autoclaves	3	3	-
Blood Bank Refrigerator	4	-	4
Ordinary Refrigerator	3	3	-
Floatation Bath	1	-	1
Emergency Drug Trolley with auto cylinder	1	1	-
Dialected tube scaler			
Class – I Bio Safety Cabinet	1	-	1
Knife Sharpner	1	-	1
Air Conditioner with Stabilizer	1	1	-
Cyto Spin	1	-	1
Ro Plant	1	-	1
Computer with UPS and Printer	1	1	-
Automatic Blood Gas Analyzer	1	-	1
Fine Needle Aspiration Cytology	1	-	1
Histopathology Equipment	1	-	1
Pipette – 1 ml & 5 ml Burette 10 ml Conical Flask Biker/ Glass bottles Glass or plastic funnel Glass stirring rod Small stainless steel bowl Electronic weighing scale		-	

Name of equipment	Norm	Actual	Shortfall
Measuring cylinder Gas Burner Laboratory balance Stop watch, Cyclomixer Micro pipette 10-100 ml :10-200 ml Micro tips Centrifuge, Oven Bath Serological Digital calorie meter Stirrer with stainless steel stirring rod Digital electronic temperature controller			
viii. Ion – meter Table Top (specific for fluoride estimation in biological fluid) ix. Table Top Centrifuge without refrigeration x. Digital PH Meter xi. Metaler Balance xii. Mixer xiii. Incubator xiv. Pipettes/Micropipettes			
CO Analyser	1	-	1
Whole Blood Finger Prick HIV Rapid Test and STI Screening Test each (4000 count as 1)	1	1	-
Blood Component Separator	---		
Platelet Agitator	---		
Platelet Thawing Machine	---		
Laminar Flow	---		
Total	119	76	43
<b>11. Surgical Equipment Set</b>			
P.S. set	2	2	-
MTP Set (Including Suction Cannula size 6-12)	2	2	-
Biopsy Cervical Set*	1	1	-
EB Set	2	2	-
Microscope (Gynae for wet smear and PCT )	-	-	-
D&C Set	2	2	-
I.U.C.D. Kit	2	2	-
LSCS set	2	2	-
MVA kit	2	2	-
Vaginal Hysterectomy	2	-	2
Proctoscopy Set*	2	-	2
P.V. Tray*	2	2	-
Abdominal Hysterectomy set	2	2	-
Laparotomy Set	2	-	2
Formaline dispenser	3	-	3
Kick Bucket	8	-	8
General Surgical Instrument Set Piles, Fistula, Fissure*	2	-	2
Knee hammer	5	-	5
Hernia, Hydrocele*	2	-	2
Varicose vein etc.*	1	-	1
Gynaec Electric Cautery	1	-	1
Vaginal Examination set*	8	8	-
Suturing set*	5	-	5
MTP suction apparatus	1	1	-
Thoracotomy set		-	
Neuro Surgery Craniotomy Set		-	
I M nailing kit	1	-	1
SP Nailing	1	-	1
Compression Plating Kit*	1	-	1
AM Prosthesis*		-	
Dislocation Hip Screw Fixation*		-	
Fixation Fracture Hip	1	-	1
Spinal Column Back Operation Set		-	
Thomas Splint	7	-	7
Paediatric Surgery Set	1	-	1
Mini Surgery Set*	2	-	2
Urology Kit	1	-	1

Name of equipment	Norm	Actual	Shortfall
Surgical Package for Cholecystectomy*	---	-	
Surgical package for Thyroid	---	-	
GI Operation Set*	2	-	2
Appendicectomy set*	2	-	2
L. P. Tray*	5	-	5
Urethral Dilator Set	4	-	4
TURP Resectoscope*	1	-	1
Haemodialysis Machine*	---	-	
Amputation set	1	-	1
Universal Bone Drill	---	-	
Crammer wire splints	8	-	8
Minilap sets-3	3	3	-
NSV sets-3	3	-	3
Colposcope	1	1	-
Cryoprobe	1	-	1
Skin Biopsy Sets	1	-	1
Total	108	32	76
<b>12. PMR Equipment</b>			
Skeleton Traction Set	3	-	3
Interferential Therapy Unit	2	-	2
Short Wave Diathermy	1	-	1
Hot packs & Hydro collator*		-	
Exercise Table*			
Static Cycle*			
Medicine ball*			
Quadriceps exerciser*		-	
Coordination Board*		-	
Hand grip strength measurement Board*		-	
Kit for Neuro-development assessment*		-	
CBR Manual*		-	
ADL Kit & hand exerciser*		-	
Multi Gym Exerciser*			
Self Help devices*		-	
Wheel chair*		-	
Crutches/Mobility device sets*		-	
Hot air oven	2	-	2
Hot air gun	2	-	2
Grinder	2	-	2
Sander	2	-	2
Router*		-	
Power Drill*		-	
Band saw*		-	
Vacuum Forming Apparatus*		-	
Lathe*		-	
Welding machine*		-	
Buffing & polishing machine*		-	
Work Table	2	-	2
Tools and raw material*		-	
Total	16	0	16
<b>13. Endoscopy Equipment</b>			
Endoscope fibre Optic (OGD)*	---	-	
Arthroscope	---	-	
Operating Laproscope complete for laproscopic surgery	---	-	
Laparoscope diagnostic and for sterilisation*	1	-	1
Colonoscope and Sigmoidoscope*	---	-	
Hysteroscope*	1	-	1
Colposcope*	1	-	1
Total	3	0	3
<b>14. Anaesthesia Equipment</b>			
Anesthetic - laryngoscope magills with four blades	3	3	-
Endo Tracheal Tubes Sets	2	2	-

Name of equipment	Norm	Actual	Shortfall
Magills Forceps (two sizes)	6	6	-
Connector set of six for ETT	6	6	-
Tubes connecting for ETT	6	6	-
Air way female*	10	10	-
Air way male*	20	20	-
Mouth prop*	8	8	-
Tongue Depressors*	10	10	-
O <sub>2</sub> cylinder for Boyles	10	10	-
N <sub>2</sub> O Cylinder for Boyles	10	10	-
CO <sub>2</sub> cylinder for laparoscope*		-	
PFT machine	1	1	-
Anaesthesia machine with ventilator (desirable)/ Boyles Apparatus with Fluotec and circle absorber	2	1	1
Multi-parameter monitor	2	2	-
Pipe line supply of Oxygen, Nitrous Oxide, Compressed Air and suction (desirable)		-	
Defibrillators	1	-	1
Infusion pumps*		-	
Regional anaesthesia devices*		-	
O <sub>2</sub> therapy devices*		-	
Exchange Transfusion Sets*		-	
Recovery Area		-	
O <sub>2</sub> Therapy Devices*		-	
Pipe line supply of Oxygen and Suction (desirable)*		-	
Monitor*		-	
Patient Trolley*		-	
Total =	97	95	2
<b>15. Post Mortem Equipment</b>			
Mortuary table (Stainless steel)*	2	2	-
P.M. equipment (list)	4	4	-
Weighing machines (Organs)	2	-	2
Measuring glasses (liquids)	3	-	3
Aprons*	10	0	10
PM gloves (Pairs)*	10	10	-
Rubber sheets*		-	
Lens	2	-	2
Spot lights	2	2	0
Total	35	18	17
<b>Grand Total =</b>	<b>710</b>	<b>437</b>	<b>273</b>