

# Biomedical Tour

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## ***Purpose***

This tour is conducted by the Biomedical Engineer. The focus of this tour is to evaluate adequacy of equipment and relevant material required for provision of appropriate medical education.

## ***Location***

All facility areas (Medical College and Hospital)

## ***Tour Participants***

- One representative from biomedical department

## ***Surveyor(s)***

Biomedical Engineer

## ***Standards/Issues Addressed***

Recognition Standard 1: Infrastructure

## ***Documents/Materials Needed***

- Periodic Preventive Maintenance Schedule (PPM) Schedule
- Machine/equipment Logs
- Per machine log book
- Downtime Report

## ***What Will Occur***

The surveyor(s) will visit the medical college and the hospital to ensure they are available in adequate numbers, are functional and are in use. Equipment inventory will be audited and the log of machines will be checked for their quality control.

## ***How to Prepare***

To evaluate the compliance to relevant standards, review the documents provided by the college. Based on the review, conduct a comprehensive tour of the hospital to verify its equipment's. On Day two college tour, remember to conduct a paired tour with basic sciences nominee to ensure that educational material mentioned in checklist is close to what is required by PMDC.

# Biomedical Equipment Session

Q#	Evaluation Question	Compliance		
		Yes	No	Not Applicable
<b><i>Anatomy: (Dissection Hall)</i></b>				
1.	Does the college have a facility of the cadaver or equivalent?			
2.	Does the college have at least two appropriate dissecting instruments for two cadavers available? (Optional)			
3.	Does the college have at least six operational full dissection tables available? (Optional)			
4.	Does the college have at least eighteen half-dissection tables available under active use at all times? (optional)			
5.	Does the college have at least at least 80 stools set available, functional and in use.			
<b><i>Anatomy: (histology Laboratory)</i></b>				
6.	Does the college have at least three histology slide sets per hundred students available under active use at all times?			
7.	Does the college have at least twenty-five binocular microscopes per hundred students available under active use at all times?			
8.	Does the college have at least one slide projecting microscope per hundred students available under active use at all times?			
9.	Does the college have at least one large refrigerator per hundred students available under active use at all times?			
10	Does the college have at least one computer with internet facility available, functional and in use (Optional)			
11	Does the college have at least one scanner available, functional and in use. (Optional)			
12	Does the college have at least one color laser printer available, functional and in use. (Optional)			
13	Does the college have at least 50 stools available, functional and in use.			
<b><i>Anatomy: (Museum)</i></b>				
14	Does the college always have at least five torso (Male and Female) model available, functional and in use?			
15.	Does the college always have at least one cross sectional torso model available, functional and in use?			

16.	Does the college always have at least eight upper limb (muscles, vessels, nerves and joints) anatomical model available, functional and in use?			
17	Does the college always have at least eight lower limb (muscles, vessels, nerves and joints) anatomical model available, functional and in use?			
18	Does the college always have at least seven head and neck (muscles, vessels, nerves and joints) anatomical model available, functional and in use?			
19	Does the college always have at least seven special senses anatomical model available, functional and in use?			
20	Does the college always have at least ten-brain anatomical model available, functional and in use?			
21	Does the college always have at least one histology models available, functional and in use?			
22.	Does the college always have at least one-embryology models available, functional and in use?			
23.	Does the college always have at least eight pelvis models available, functional and in use?			
24.	Does the college always have at least seven abdominal viscera models/ prosected segments available, functional and in use?			
25	Does the college always have at least seven liver models / prosected segments available, functional and in use?			
26	Does the college always have at least seven kidney models / prosected segments available, functional and in use?			
27	Does the college always have at least six CVS models / prosected segments available, functional and in use?			
28	Does the college always have at least seven respiratory system models / prosected segments available, functional and in use?			
29	Does the college always have at least hundred and seventy-five human's loose bones available functional and in use?			
30	Does the college always have at least seven articulated skeletons available, functional and in use?			
31	Does the college always have at least three articulated vertebral column available, functional and in use?			
32	Does the college always have one anatomical chart of every system available, functional and in use?			
33	Does the college always have at least one cross sectional body model available, functional and in use?			
34	Does the college always have anatomy CDs available, functional and in use?			
35	Does the college always have at least two white boards available, functional and in use for teaching purpose?			
<b>Physiology (Major)</b>				

44	Does the college have at least fifteen sphygmomanometers available, functional and in use?			
45	Does the college have at least fifteen microscope Binoculars available, functional and in use. At least twenty haemocytometers available, functional and in use?			
46	Does the college have at least twenty haemocytometers available, functional and in use?			
47	Does the college have at least fifteen haemoglobin meters available, functional and in use?			
48	Does the college have at least ten complete perimeters available, functional and in use?			
49	Does the college have at least twenty-five ESR pipettes available, functional and in use?			
50	Does the college have at least twenty percussion hammers available, functional and in use?			
51	Does the college have at least three oxygen cylinders with flow meters available, functional and in use?			
52	Does the college have at least thirty clinical thermometers available, functional and in use?			
53	Does the college have at least ten student kymographs available, functional and in use?			
54	Does the college have at least three ECG machines available, functional and in use?			
55	Does the college have at least one centrifuge machine available, functional and in use. ?			
56	Does the college have at least five microhaematocrit reader available, functional and in use. ?			
57	Does the college have at least two microhematocrit centrifuge available, functional and in use. ?			
58	Does the college have at least thirty stethoscopes available, functional and in use. ?			
59	Does the college have at least three data acquisition system available, functional and in use. ?			
60	Does the college have at least one finger pulse oximeter available, functional and in use?			
<b>Physiology (Minor)</b>				
61	Does the college have at least twenty stopwatches available, functional and in use?			

62	Does the college have at least twenty-five tuning forks of different frequencies available, functional and in use?			
63	Does the college have at least fifteen vision E type charts/Snellen's charts available, functional and in use?			
64	Does the college have at least ten Ishihara charts available, functional and in use?			
65	Does the college have at least two weighting machines available, functional and in use?			
66	Does the college have at least three audiometer available, functional and in use?			
67	Does the college have at least an examination couch available, functional and in use?			
68	Does the college have at least a fire extinguisher available, functional and in use?			
69	Does the college have at least ten Jaeger's chart?			
70	Does the college have at least two ophthalmoscope?			
71	Does the college have at least a refrigerator?			
72	Does the college have at least a stethoscope (complete), with assembly available, functional and in use?			
73	Does the college have assorted torches available, functional and in use?			
74	Does the college have assorted tourniquets available, functional and in use?			
75	Does the college have one water bath available, functional and in use?			
76	Does the college have one beaker 100ml graduated available, functional and in use?			
77	Does the college have one beaker 500ml graduated available, functional and in use?			
78	Does the college have one blood group tiles available, functional and in use?			
79	Does the college have assorted capillary tubes (heparinised) available, functional and in use?			
80	Does the college have one treadmill or an aergometer cycle available, functional and in use?			
81	Does the college have assorted capillary tubes (plain) available, functional and in use?			
82	Does the college have assorted centrifuge tubes with cork available, functional and in use?			
83	Does the college have assorted EDTA tube available, functional and in use?			

84	Does the college have assorted ESR pipette available, functional and in use?			
85	Does the college have one glass rod available, functional and in use?			
86	Does the college have one magnifying glass available, functional and in use?			
87	Does the college have assorted microscope slides?			
88	Does the college have assorted Petri dishes (various sizes)?			
89	Does the college have one spirit lamp/gas burner available, functional and in use?			
90	Does the college have one thermometer available, functional and in use?			
91	Does the college have assorted Win Trobe's tubes available, functional and in use?			
92	Does the college have one antisera A, B and D available, functional and in use?			
93	Does the college have one cedar wood oil available, functional and in use?			
94	Does the college have one distilled water available, functional and in use?			
95	Does the college have one bottle of HCL?			
96	Does the college have one bottle of Leishman's stain available, functional and in use?			
97	Does the college have one bottle of methylated spirit available, functional and in use?			
98	Does the college have one bottles of platelet solution (Ree's and Ecker's solution) available, functional and in use?			
99	Does the college have one set of pregnancy test kits available, functional and in use?			
100	Does the college have assorted pregnancy strips available, functional and in use?			
101	Does the college have one bottle of RBC solution available, functional and in use?			
102	Does the college have one bottle of WBC solution available, functional and in use?			
103	Does the college have one bottle of xylene available, functional and in use?			

<i>Biochemistry (Major Equipment)</i>				
104	Does the college have at least two clinical PH meters available, functional and in use?			
105	Does the college have at least one large size incubator available, functional and in use?			
106	Does the college have at least two electronic balance available, functional and in use?			
107	Does the college have at least one thermal cycler available, functional and in use?			
108	Does the college have at least one electrophoresis available, functional and in use?			
109	Does the college have at least three glucometers available, functional and in use?			
110	Does the college have two bench top centrifuge 1. At least 2x Microlab functional, available and in use? 2. At least 10x microscopes functional, available and in use? 3. At least 1x Refrigerator functional, available and in use?			
<i>Biochemistry (Minor Equipment)</i>				
111	Does the college have at least one water distillation unit (operation china 10 Liters) available, functional and in use?			
112	Does the college have at least one electric water bath available, functional and in use?			
113	Does the college have at least ten stopwatches available, functional and in use?			
114	Does the college have at least one hot box oven available, functional and in use?			
<b>Pharmacology (Major)</b>				
115	Does the college have at least five audio-visual facility and assorted experimental CDs for pharmacology practical is available, functional and in use?			
116	Does the college have at least four BP apparatus available, functional and in use?			

117	Does the college have at least 4 stethoscopes and 15 kymographs available, functional and in use?			
<b>Pharmacology (Minor)</b>				
118	Does the college have at least two electronic balance available, functional and in use?			
<b>Pathology (Major)</b>				
119	Does the college have at least twenty-five microscope binoculars available, functional and in use?			
120	Does the college have at least one Microscope multi head (5 piece) available and at least one microscope slide projection system, functional and in use?			
Pathology (Minor)				
121	Does the college have at least four stain dropping bottles (250ml) available, functional and in use?			
122	Does the college have at least four wash bottles available, functional and in use?			
123	Does the college have at least four adjustable staining racks available, functional and in use?			
124	Does the college have at least two 14 cubic feet refrigerators available, functional and in use?			
125	Does the college have at least one – (minus) 20 C deep freezer available, functional and in use?			
126	Does the college have at least four glass beaker (graduated) (Pyrex) 500 ml graduated available, functional and in use?			
127	Does the college have at least four glass cylinder (graduated) (Pyrex) 500 ml graduated available, functional and in use.			
128	Does the college have at least one water stills available, functional and in use?			
129	Does the college have at least one incubator 37 c large available, functional and in use.t all time?			
130	Does the college have at least one floating bath available, functional and in use?			
131	Does the college have at least twenty Staining jars available, functional and in use?			
132	Does the college have at least one automatic tissue processor available, functional and in use?			



133	Does the college have at least one embedding station available, functional and in use?			
134	Does the college have at least one water Bath electric available, functional and in use?			
135	The college must have at least one paraffin embedding bath available, functional and in use?			
136	Does the college have at least one oven-wax embedding (100 c) available, functional and in use?			
137	Does the college have at least one Microtome available, functional and in use?			
138	Does the college have at least one knife sharpener available, functional and in use?			
139	Does the college have at least a large incubator available, functional and in use?			
<b>Community Medicine (museum)</b>				
140	Does the college have use digital technology in the form of Images, Illustrations, Infographics and power point slides on primary healthcare and community and preventive medicine?			
141	Does the college have at least one multimedia projector or LED and one computers for display of images, illustrations, video clips and /or power point slides?			
142	Does the college have one computer for research software?			
143	Does the college have at least 5 Images / Illustrations or power point slides of the following categories  Ice berg phenomena of the disease  Pustule eruption in small pox and chicken pox  Lifecycle of malaria parasite (P.vivax and Falciparum)  Xerosis (conjunctival) in vitamin A deficiency  Lead line on gum  Cutaneous Leishmaniasis, Ulcers on forearm and head  Tick			

Flea

Sand Fly

House Fly

Aedes Agypti mosquito

Anopheles mosquito

Population Pyramid

Coal Miners Lung

Snow storm silicosis (lung)

Ground Glass Anthracosis (lung)

Bleeding Gums

Rickets

Poliomyelitis

Measles

Vaccine Vile Monitor

Dental Fluorosis

Spot maps

Bar Charts

Histograms

Frequency Polygon

Normal Distribution Curve

Marasmus / Kwashiorkor

Goiter

Functioning of incinerator

Food pyramid

	Sustainable development Goals			
144	<p>Does the college have at least following models</p> <p>1 x Septic tank</p> <p>1 x Water filtration plant</p> <p>5 x mid arm circumference (MUAC)tapes</p> <p>Various contraceptive devices and oral pills</p> <p>50 x Growth charts</p> <p>50 x antenatal charts</p> <p>3 x measuring tapes and 3 x weighing machines for BMI calculation</p> <p>10 x water purification tablets</p> <p>1 x water testing kit for chlorine</p> <p>3 x EPI vaccines</p>			
145	<p>Does the college have following soft wares fully functional and in use for Research methods</p> <p>SPSS latest version</p> <p>Microsoft Excel</p> <p>Epi info</p> <p>WHO Sample size calculator</p> <p>One of the Reference Managers (Endnote X7 or Mendeley)</p>			
	<b>Forensic medicine (Major)</b>			
146	Does the college have at least one male or female skeleton available, functional and in use?			
147	Does the college have at least fifteen separate bones available, functional and in use?			

148	Does the college have at least twenty models available, functional and in use?			
149	Does the college have at least fifteen toxicological specimens available, functional and in use?			
150	Does the college have at least 5 simple hand held magnifying glass available, functional and in use?			
151	Does the college have at least three binocular microscopes available, functional and in use?			
152	Does the college have at least 2 ultraviolet lamps for examinations of stains, available, functional and in use?			
153	Does the college have two autopsy examination sets available, functional and in use?			
154	Does the college have at least ten assault weapons (or their replicas) available?			
<b>Forensic medicine (Minor)</b>				
155	Does the college have at least ten medico-legal x-rays and photography available functional and in use?			
<b>Teaching Hospital(s) Equipment Requirements</b>				
<b>General Medicine</b>				
156	Does the college have two defibrillator available, functional and in use?			
157	Does the college have three ECG machine (at least Triple Channel) available, functional and in use?			
158	Does the college have one video endoscopic system with upper and lower sets available, functional and in use?			
159	Does the college have one Trolley for endoscopes available, functional and in use?			
160	Does the college have one echocardiograph 2D with color Doppler available, functional and in use?			
161	Does the college have one ETT machine available, functional and in use five complete nebulizers available, functional and in use?			
162	Does the college have 15 BP apparatus available, functional and in use?			
163	Does the college have 15 stethoscopes available, functional and in use?			

164	Does the college have 7 pulse oximeters available, functional and in use?			
165	Does the college have 7 glucometers available, functional and in use?			
166	Does the college have 4 cardiac monitors available, functional and in use?			
167	Does the college have 20 thermometers available, functional and in use?			
168	Does the college have 6 torches available, functional and in use?			
169	Does the college have 5 measuring tapes available, functional and in use?			
170	Does the college have 6 hammers available, functional and in use?			
171	Does the college have 2 tuning forks (128Hz) available, functional and in use?			
172	Does the college have 5 examination couches available, functional and in use?			
<b>Dermatology</b>				
173	Does the college have 3 electrocautery machines available, functional and in use?			
174	Does the college have 15 magnifying glasses with fluorescent lamps available, functional and in use?			
175	Does the college have 3 wood lamps available, functional and in use?			
176	Does the college have 1 PUVA machine available, functional and in use?			
177	Does the college have 1 UVB machine available, functional and in use?			
178	Does the college have 3 liquid nitrogen cylinders for cryo available, functional and in use?			
179	Does the college have 1 microscope with accessories available, functional and in use?			
180	Does the college have 6 biopsy sets available, functional and in use?			
181	Does the college have 6 BP apparatus available, functional and in use?			

	<b>Surgery</b>			
182	Does the hospital have 15 basic standard surgical sets available, functional and in use?			
183	Does the hospital have 3 thoracic surgical set available, functional and in use?			
184	Does the hospital have 2 vascular surgical set available, functional and in use?			
185	Does the hospital have 2 paediatric surgical sets available, functional and in use?			
186	Does the hospital have 2 plastic surgery set available, functional and in use?			
187	Does the hospital have 3 surgical diathermies (Monopolar and Bipolar) machines available, functional and in use?			
188	Does the hospital have 1 harmonic/Ligasure machine available, functional and in use?			
189	Does the hospital have 3 fiber optic colonoscope (Diagnostic and therapeutic) or flexible sigmoidoscope available, functional and in use?			
190	Does the hospital have 3 rigid sigmoidoscope and proctoscope available, functional and in use?			
191	Does the hospital have 3 complete laparoscopic surgical sets available, functional and in use?			
192	Does the hospital have 2 microscopic surgical sets available, functional and in use?			
193	Does the hospital have 2 transurethral resection of prostate surgical set available, functional and in use?			
194	Does the hospital have 3 cystoscopes (diagnostic and therapeutic) available, functional and in use?			
195	Does the hospital have 2 fibreopticoesophagoscope/gastroscope available, functional and in use?			
196	Does the hospital have 2 fiber optic bronchoscope available, functional and in use?			
197	Does the hospital have .3 portable X-ray machine, operation table, and radiographic film cassette facilities e.g. for per			

	operative cholangiogram. Image intensifier with C-arm and double monitors available, functional and in use?			
198	Does the hospital have 6 suction machines available, functional and in use?			
199	Does the hospital have 3 defibrillator available, functional and in use?			
<b>Obstetrics and Gynecology</b>				
200	Does the hospital have .5 ultrasounds with linear, vaginal, section probes and punctures available, functional and in use?			
201	Does the hospital have 1 hysteroscope available, functional and in use?			
202	Does the hospital have 3 colposcope available, functional and in use?			
203	Does the hospital have 2 laparoscopic surgical sets with camera and monitors available, functional and in use?			
204	Does the hospital have 4 delivery table available, functional and in use?			
205	Does the hospital have 10 examination tables available, functional and in use?			
206	Does the hospital have 8 manual BP apparatus available, functional and in use. t all time?			
207	Does the hospital have 8 dyna-map available, functional and in use?			
208	Does the hospital have 7 pulse oximeters available, functional and in use?			
209	Does the hospital have 5 baby weighing scales available, functional and in use?			
210	Does the hospital have 12 pinnard stethoscopes/fetosopes available, functional and in use?			
211	Does the hospital have 4 instrument sterilizers available, functional and in use?			
212	Does the hospital have 2 sonicaid available, functional and in use?			
213	Does the hospital have 4 CTG machines available, functional and in use?			

214	Does the hospital have 4 neonatal resuscitation trolley and heaters available, functional and in use?			
215	Does the hospital have 15 disposable delivery sets?			
216	Does the hospital have 20 Cusco's speculum available, functional and in use. ?			
217	Does the hospital have 3 adult ambu bags and masks available, functional and in use?			
218	Does the hospital have 20 Sims speculum available, functional and in use?			
219	Does the hospital have 8 Caesarean section sets available, functional and in use?			
220	Does the hospital have 5 dilatation and Evacuation sets (D&C) available, functional and in use?			
221	Does the hospital have 7 manual vacuum aspirators available, functional and in use?			
222	Does the hospital have 6 vacuum ventuse cups available, functional and in use ?			
223	Does the hospital have 6 outlet forceps available, functional and in use?			
224	Does the hospital have 6 infant laryngoscopes with spare bulbs available, functional and in use?			
225	Does the hospital have 6 suction machines available, functional and in use?			
226	Does the hospital have 2 teaching dummies and anatomical pelvis models available, functional and in use?			
228	Does the hospital have 1 adequate equipment for family planning available, functional and in use?			
<b>Basic Surgery Sets in main Operating Theatre</b>				
229	Does the hospital have 1 sterilizer (>300L capacity) available, functional and in use?			
230	Does the hospital have sufficient instrument boxes, scalpel handles of various sizes, May-Hegggar Needle holders of various sizes, artery forceps, Halstead (non-serrated and curved ) various sizes, surgical dissecting scissors, metzembaum (Curved) of various sizes, Kocher's forceps (toothed, straight, haemostatic) of			



	various sizes, Probes of various sizes, Dissecting forceps with and without teeth of various sizes, Haemostatic forceps (Collin and Chaput) of various sizes, towel clips and galipots of various sizes available, functional and in use ?			
231	Does the hospital have Farabeuf retractors, short, self-retaining retractors for thoracic, abdominal and minor procedures etc. available, functional and in use?			
<b>Out-Patient:</b>				
232	Does the hospital have 1 stethoscope per clinic available, functional and in use?			
233	Does the hospital have 1 fetal/paediatric stethoscope per respective clinics available, functional and in use?			
234	Does the hospital have BP apparatus per clinic available, functional and in use?			
235	Does the hospital have one thermometer (Oral/armpit) and sufficient rectal thermometers available, functional and in use?			
236	Does the hospital have light source (battery type), tongue depressors, tape measures (Flexible, soft), Snellen chart (including for uneducated patients), hammers, head mirrors/head lights, mirror laryngeal sets, otoscopes, and Collyer pelvimeters, examination tables, available, functional and in use?			
237	Does the hospital have laryngoscopes available, functional and in use?			
238	Does the hospital have stretchers (folding type) available, functional and in use?			
239	Does the hospital have ambu bags for infants, paediatric patients and adult patients available, functional and in use?			
240	Does the hospital have suction machines available, functional and in use?			
241	Does the hospital have consumables like gloves, Endo tracheal tubes of various sizes, IV cannulas of various sizes, masks etc. available, functional and in use?			
<b>Pediatrics Department</b>				
242	Does the hospital have 1 weighing scale available, functional and in use?			
243	Does the hospital have 1 length/height measuring scale available, functional and in use?			

244	Does the hospital have 2 ultrasonic nebulizers available, functional and in use?			
245	Does the hospital have 1 paediatric ventilator available, functional and in use?			
246	Does the hospital have 1 neonatal ventilator available, functional and in use?			
247	Does the hospital have 1 pulse oximeter available, functional and in use?			
248	Does the hospital have 3 infusion pump available, functional and in use?			
249	Does the hospital have 1 cardiac monitor available, functional and in use?			
250	Does the hospital have 1 transport incubator available, functional and in use?			
251	Does the hospital have 1 neonatal resuscitator available, functional and in use?			
252	Does the hospital have 1 low-grade suction apparatus available, functional and in use?			
253	Does the hospital have 1 resuscitator (infant/child), manual available, functional and in use?			
254	Does the hospital have 1 suction machine (dual operation with tubes) available, functional and in use?			
255	Does the hospital have 2 otoscopes with infant diagnostic heads available, functional and in use?			
256	Does the hospital have 2 forceps, splinter/repilation, and spring available, functional and in use?			
257	Does the hospital have 2 paediatric nasal speculums available, functional and in use?			
258	Does the hospital have 1 scale for infants available, functional and in use?			
259	Does the hospital have 1 height measuring scale for infants available, functional and in use?			
260	Does the hospital have 6 oral/armpit thermometers available, functional and in use?			
261	Does the hospital have 5 BP apparatus (new born, neonatal, paediatric, cuffs) available, functional and in use?			
262	Does the hospital have one paediatric BLS mannequin?			
<i>Ophthalmology Department</i>				

263	Does the hospital have 1 Autorefracto/Keratometer available, functional and in use?			
264	Does the hospital have 1 Ultrasound A-scan bio-meter available, functional and in use?			
265	Does the hospital have 1 Ultrasound B-scan available, functional and in use?			
266	Does the hospital have 1 Keratometer automated available, functional and in use?			
267	Does the hospital have 1 Application Tonometer available, functional and in use?			
268	Does the hospital have 1 Phacoemulsification unit available, functional and in use?			
269	Does the hospital have 1 Slit lamp with applanation tonometer available, functional and in use?			
	Does the hospital have 1 prism bar (Horizontal) available, functional and in use?			
270	Does the hospital have 1 lensometer (manual) available, functional and in use?			
272	Does the hospital have 1 Operating microscope available, functional and in use?			
273	Does the hospital have 1 indirect ophthalmoscope available, functional and in use?			
274	Does the hospital have 1 direct ophthalmoscope available, functional and in use?			
275	Does the hospital have 1 Retinoscope available, functional and in use?			
276	Does the hospital have 1 Trial lens set with trial frame available, functional and in use?			
277	Does the hospital have 1 Prism bars (vertical) available, functional and in use?			
278	Does the hospital have 1 Manual visual field analyzer Bjerrum screen) available, functional and in use?			
279	Does the hospital have 1 automated visual field analyzer Bjerrum Screen) available, functional and in use?			
280	Does the hospital have 1 electrosurgical diathermy unit (Mono/Bipolar) available, functional and in use?			
281	Does the hospital have 1 Portable surgical light available, functional and in use?			
	<i>ENT Department</i>			

282	Does the hospital have 1 OPD instrument set available, functional and in use?			
283	Does the hospital have 1 Auroscope available, functional and in use?			
284	Does the hospital have 1 Ultrasound B-scan available, functional and in use?			
285	Does the hospital have 1 microscope for O.T available, functional and in use?			
286	Does the hospital have 1 rigid endoscopes with all accessories available, functional and in use?			
287	Does the hospital have 1 Audiometer available, functional and in use?			
288	Does the hospital have 1 Impedance Audiometer available, functional and in use?			
289	Does the hospital have 1 BERA available, functional and in use?			
290	Does the hospital have 1 Minor OT dressing/Examination set available, functional and in use?			
291	Does the hospital have 1 General Set for OT available, functional and in use?			
292	Does the hospital have 1 Microscope instrument set for maxioidectomy available, functional and in use?			
293	Does the hospital have 1 Microscope instrument set for tympanoplasty available, functional and in use?			
294	Does the hospital have 1 Microcope instrument set for Stapedectomy available, functional and in use?			
295	Does the hospital have 1 Set for tonsillectomy available, functional and in use?			
296	Does the hospital have 1 Set for Rhinoplasty available, functional and in use?			
297	Does the hospital have 1 Set for FESS available, functional and in use?			
298	Does the hospital have 1 Air Drill with all accessories available, functional and in use?			
<b>Accident and Emergency Department</b>				
299	Does the hospital have 2 beds with monitoring facilities available, functional and in use?			

300	Does the hospital have 1 minor operating theatre available, functional and in use?			
301	Does the hospital have 1 pharmacy in emergency area available, functional and in use?			
302	Does the hospital have 1 facility for resuscitation including crash cart (Defibrillator) and a cubicle for patient with central oxygen, suction and monitoring facilities available, functional and in use?			
<b>Operating Rooms</b>				
303	Does the hospital have five fully equipped operating rooms available, functional and in use?			
304	Does the hospital have appropriately furnished Pre-aesthesia area available, functional and in use?			
305	Does the hospital have recovery area with central oxygen and suction and monitoring facilities available, functional and in use?			
306	Does the hospital have monitoring facilities per OR available, functional and in use?			
307	Does the hospital have 1 image intensifier available, functional and in use?			
308	Does the hospital have facilities for resuscitation available, functional and in use?			
309	Does the hospital have 5 anaesthesia workstations available, functional and in use?			
310	Does the hospital have 1 diathermy machine per theatre (Monopolar and bipolar) available, functional and in use?			
311	Does the hospital have adequate OT Waste disposal method available, functional and in use?			
<b>Critical care beds with isolation facilities as a part of intensive care, coronary care and neonatal care &amp; HDU</b>				
312	Does the hospital have ten medical ICU beds (Essential) available, functional and in use?			
313	Does the hospital have ten surgical ICU beds (Mandatory) available, functional and in use?			
314	Does the hospital have ten separate paediatric & neonatal intensive care beds available, functional and in use?			
315	Does the hospital have Implementation of sanitation & isolation protocols available, functional and in use?			
<b>Central Sterilization and Storage Department</b>				

316	Does the hospital have Instrument washing area available, functional and in use?			
317	Does the hospital have linen washing area available, functional and in use?			
318	Does the hospital have 1 washer and disinfectant available, functional and in use?			
319	Does the hospital have 2 steam autoclaves with 134 degrees' temperature (500L) available, functional and in use?			
320	Does the hospital have 1 Ethylene oxide/ Formaldehyde gas / plasma sterilizer available, functional and in use?			
321	Does the hospital have 1 sealant machine available, functional and in use. ?			
322	Does the hospital have chemical based high-level disinfection/sterilization facilities available, functional and in use. ?			
323	Does the hospital have storage and distribution counter available, functional and in use. ?			
324	Does the hospital have separate path for collection of dirty linen and instruments available, functional and in use?			
<b>Radiology Services with all imaging modalities</b>				
<i>X-Ray Machines:</i>				
325	Does the hospital have 3 Fluoroscopy/image intensifiers (500mA) available, functional and in use?			
326	Does the hospital have 1 stationary Bucky table (300mA) available, functional and in use?			
327	Does the hospital have 1 stationary Bucky Stand (300mA) available, functional and in use ?			
328	Does the hospital have 1 portable X-ray (100mA) available, functional and in use?			
<b><i>Ultrasound:</i></b>				
329	Does the hospital have 2 probe grey scale (3.5 MHz) available, functional and in use?			
330	Does the hospital have 2 probe portable grey scale (3.5 MHz) available, functional and in use?			

331	Does the hospital have 1 color Doppler (with multi frequency probes) available, functional and in use?			
332	Does the hospital have 2 biopsy probes available, functional and in use?			
<b><i>Other Equipment:</i></b>				
333	Does the hospital have 1 CT Scan 16 slices or above available, functional and in use?			
334	Does the hospital have or have access to 1 MRI (1.5Tesla or above) available, functional and in use or 0.4 tesla Open MRI?			
335	Does the hospital have 1 Mammography available, functional and in use?			
336	Does the hospital have 1 Orthopantomogram (OPG) available, functional and in use?			
<b><i>Safety Equipment:</i></b>				
337	Does the hospital have 7 lead aprons available, functional and in use?			
338	Does the hospital have 2 TLDs available, functional and in use?			
339	Does the hospital have 4 lead shields/partitions available, functional and in use?			
340	Does the hospital have one film badge/radiation detector per staff member and available, functional and in use?			
<b>Hospital Laboratory Services</b>				
<b><i>Hematology Instrument:</i></b>				
341	Does the hospital have 3/5 part automated differential counter available, functional and in use?			
342	Does the hospital have 2 microscopes available, functional and in use?			
343	Does the hospital have one basic staining facilities including for reticulocytes available, functional and in use?			
344	Does the hospital have 1 fridge to keep samples available, functional and in use?			
<b><i>Blood Bank</i></b>				

345	Does the hospital have 1 serofuge available, functional and in use?			
346	Does the hospital have 1 agglutination viewer available, functional and in use?			
347	Does the hospital have 1 blood bank fridge available, functional and in use?			
348	Does the hospital have 1 microscope and 1 water bath/heat block available, functional and in use?			
349	Does the hospital have 1 microscope and 1 water bath/heat block available, functional and in use?			
350	Does the hospital have 1 minus thirty-degree refrigerator for storage available, functional and in use?			
<b><i>Chemical Pathology:</i></b>				
351	Does the hospital have 1 automated chemistry analyser available, functional and in use?			
352	Does the hospital have 1 immuno-assay analyser available, functional and in use?			
353	Does the hospital have 1 electrolyte analyser available, functional and in use?			
354	Does the hospital have 1 blood gas analyser (either in department or in ICU) available, functional and in use?			
355	Does the hospital have 1 fridge and 1 minus-twenty degree freezer for lab available, functional and in use?			
<b><i>Microbiology:</i></b>				
356	Does the hospital have 1 incubator (37 degrees) available, functional and in use?			
357	Does the hospital have 1 basic staining facilities available, functional and in use?			
358	Does the hospital have 1 refrigerator available, functional and in use?			
359	Does the hospital have 2 microscopes available, functional and in use?			
360	Does the hospital have 1 safety hood available, functional and in use?			
<b><i>Documentation Review</i></b>				
361	Is the preventive maintenance/calibration plan being carried out periodically?	Y		



362	Is the record of preventive maintenance/calibration being maintained?			
363	Is the record of repair maintenance being maintained?			
364	Is the record of down time being maintained?			
365	Are there any master calibrators available?			
366	Are the master calibrators calibrated?			
367	Are the training certificates of person dedicated for calibration of medical devices available?			
368	Is the record of service/maintenance reports of rental/contractual equipment maintained?			
369	Is dedicated/separate workshop for repairing/maintenance of BM equipment available?			
370	Is sufficient BM staff for repair/maintenance with reference to the number of beds/equipment available?			
371	Is proper training of end user being done at the time of installation? <i>(attendance list of trainings)</i>			
372	Is daily and weekly self-test list of Defibrillators available?			