**Biomedical Equipment Maintenance Model**

for

**Indian States**

**A JOINT STUDY BY**

****

KIRLOSKAR TECHNOLOGIES PVT. LTD.

**&**

**NATIONAL HEALTH SYSTEM RESOURCE CENTRE ,**

**MINISTRY OF HEALTH AND FAMILY WELFARE,**

**( Govt. of INDIA, NEW DELHI )**

**STUDY REPORT ON BIOMEDICAL EQUIPMENT MANAGEMENT**

IN

**West & South Districts of STATE of SIKKIM**

**(MARCH-2015)**

**ACKNOWLEDGEMENT**

We feel extremely hounored to be a part of Research Study of  **Biomedical Equipment Maintanance Model for Indian States** on behalf of Ministry ofHealth and Family Welfare, Government of India.**.**

We sincerely convey our gratitude to **Dr**. **Sanjeev Kumar Dixit,** the Executive Director, **NHSRC** & **Dr. Jitendra Sharma**, Senior Consultant & Head, Health Technology Division,for choosing us their partner for **Biomedical Equipment mapping in the State of Sikkim.**

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We also thank KTPL ground staff for their tireless efforts and working in all adverse conditions to complete this project .

**23rd March’2015 Subhash C. Sood**

**New Delhi**

**Kirloskar Technologies Pvt.Ltd.**  .

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**EXECUTIVE SUMMARY**

“Biomedical Equipment Maintenance Model for Indian States” a mammoth job conceived by **The NATIONAL HEALTH SYSTEMS RESOURCE CENTRE** to organize maintenance programme of medicalequipments and devices with dedicated funds for Annual Maintenance Contract (AMC) /Comprehensive Maintenance Contract (CMC ) in public sector hospitals which includes all DistrictHospitals, CHCs & PHCs will be allotted dedicated budget to have Annual Maintenance Contract(AMC) / Comprehensive Maintenance Contract (CMC ).For financial planning and budgetary allotmentsto States, a base line sample data is needed. Towards this end Kirloskar technologies Pvt. Ltd. a Certified organization in the field of Biomedical Equipment repair, maintenance,management, quality, accreditation education, training, research and professional consultancy, asResearch Partner carried out comprehensive and extensive field survey works in two Districts ofSIKKIM, at two district level, Thirteen Primary Health Centres in south and west District of Sikkimduring last week of February’2015.

The purpose of Biomedical Equipment Maintenance Model make best uses of Public Money by optimum use of the existing equipment in the public Health Centres. As we know, so proper maintenance will bring down cost of repair and ultimately boost uptime for the equipment. In order to achieve this objective, efficient management of equipments including periodic maintenance & calibration is very essential. The process will also have control over the acquisition of right make, safe storage , easy reviewability, distribution to right places, use, and sterilization for next patient care requirement , preventive and breakdown maintenance , disposal of unserviceable equipment with replacement, order to carry out primary responsibilities of the health facility in an efficient, effective, affordable, safe and economical healthcare delivery to community.

With continuous development and rapidly advancing technologies and increasing number of specialties the type and number of medical equipments and devices have increased many times in all health facilities. More and more sophisticated and software technology based instruments like Semi & fully automatic laboratory analyzers, digital X-ray processing units, Pulse Oximeter, Infusion pump and so on are now available in District Hospitals and other facilities. During our ground study, It was often seen that either patient care is compromised or extreme inconvenience is caused due to non-functioning of diagnostic and therapeutic equipments, which causes patients to travel to another healthcare facility or private sector to get the desired investigations or treatment. A proper periodic preventive and breakdown maintenance policy with sufficient financial support will eliminate a major perpetual problem in healthcare delivery in Government Health Facility in India.

It was really tough and challenging for us to cover such cover west and south districts of Sikkim where some parts had frequent landslide and very difficult public transport. We received excellent support from the mission director ‘s office to plan our visits which somewhat made our job possible. After detailed desk review, administrative planning, logistic details and preparing a Tool Kit for capturing technical details about each equipments, number of teams of expert Biomedical Engineers were sent to DHs, PHCs to physically check medical equipments, record technical details and assess the cost of equipment from records and estimate approximate Annual Maintenance Cost and ComprehensiveMaintenance Cost. All collected data was scrutinized and compiled to get the total financial estimates.

When Cost of equipment not available, data was used to complete the research study secondary.

The findings of the first of its kind impugned research study by team of experts at ground level, are very significant and will provide a base line for financial estimates for budgetary planning and allotment of funds for AMC & CMC for a Government District Hospital, and a Primary Health Centre in any State with little variation due to variables of geographic location, terrain and accessibility. This has also lead to immense learning experience and expertise, human resource required, time frame estimation, logistics required to carry out medical equipments survey physically in all facilities of all Districts of a State or even all States in the Country for a National Census of Medical Equipments and Devices for the Central and State Governments for making comprehensive equipment procurement, replacement, regular maintenance plan, sound financial planning and budgetary allocations to peripheral most healthcare delivery facility in the State.

Findings of the research study when scaled up at State & National level will go a long way in improving quality of healthcare at all levels in the country.

**CHAPTER – I**

**TERMS OF REFERENCE OF STUDY PROJECT**

**TERMS OF REFERENCE (TOR)**

**Annexure**

**Biomedical Equipment Maintenance Model for Indian States**

**by**

**National Health Systems Resource Centre**

**(Technical support agency under NRHM, Ministry of Health & FW, Govt. of India)**

**TERMS OF REFERENCE (TOR)**

**Introduction**

To address the gap in technology management and maintenance in district and sub-district hospitals in the country, a model has been conceived on the lines of public-private partnership.

The major concern arises from the fact that with 14.4 million hospital beds in India, 8.6 million beds (approximately 60%) are in public health sector attracting a fair degree of biomedical equipment density. A non-functional status of these life saving equipments could actually make the bed strength redundant.

The evaluation of pilot sites to understand the principles mentioned above, to undertake research to speculate “fiscal space” required for such an undertaking and to develop operational guidelines to establish best-practices in this domain; it was suggested that a study be undertaken in **West & South District of Sikkim** in all public health facilities in the said district except the sub-centres.

**This included:**

a. One District Hospital in Namchi and One in Geyzing in south.

b. 1 CHC and 6 PHCs in south and 7 PHCs in west districts

**What would a model plan for outsourcing Management and Maintenance of medical devices in district and sub-district government health facilities ensure?**

A model plan for various states for outsourcing “management and maintenance of biomedical technology” inclusive of operational and financial guidelines would include but will not limited to:

a. Assessment (periodic and on continuous basis) of all equipment available in district and sub-district public healthcare facilities.

b. Cost calibration, configuration and undertaking “settings” pertaining to all equipment.

c. Preventive maintenance of equipment on a schedule.

d. Conducting C M Es to train paramedics and other hospital staffs for safe optimal use of medical equipment

e. Corrective maintenance of equipment on on -call basis

f. Submission of quarterly report on functional status of equipment

**Methodology for conducting the study:**

**1.** Line Listing of equipment in district and sub-district facilities up to the level of PHC

**2.** Assessment of functional status of all the devices**/**equipment

**3.** Capturing costs required to maintain all line listed equipment

A detailed situational analysis of existing biomedical equipment needed to be undertaken with functional standings, breakdown costs and upkeep/maintenance costs. A detailed was required to be done over status of various public health setups in the pilot districts, listings of survey areas and the costs involved.

**Data Sources**

The Biomedical Equipment Management Model would use the following data sources:

1. Empirical Data (from site)

Data 1: Line listing of Medical Devices or Mapping Technologies in district & sub- district centers

Data 2: Functional Status of each Medical Equipment

2. Secondary Data (from market research)

Data 3: Cost involved per annum (C1) in Comprehensive maintenance of all the medical Devices (obtained from Data 1)

**Deliverables**

**Kirloskar Technologies Pvt. Ltd.** was expected to:

Identify Empirical Data (mentioned above)in the identified districts

Calculate the Secondary Data (mentioned above)

Detailed equipment study including inventory log; equipment density and current functional status of biomedical equipment at the pilot facilities

****Submission of finding.

Submit the final report.

**NHSRC, New Delhi will undertake the following activities :-**

1. Administer the research

2. Facilitate the process of undertaking the budget.

3. Identify facilities where study has to be conducted

4. Send official communication to respective state government officials detailing the study objective and introducing Kirloskar Technologies Pvt. Ltd. representatives.

5. Facilitate the conducting of joint training workshops, if and when required

6. Accompany kirloskar technologies Pvt. Ltd. team (wherever required) to identified sites

7. Undertake dissemination meetings of the study

**Stakeholders**

NHSRC, New Delhi

Kirloskar Technologies Pvt. Ltd. New Delhi-110 024

**Team from Kirloskar Technologies Pvt. Ltd. New Delhi will perform the following:**

Project management Data collection

Data analysis

Report development

**Roles and responsibilities**

1. Project Leadership
   1. Supervise the team
   2. Listing Medical Devices & its functional status
   3. Analyze and assess the costs.
   4. Analyze the data and prepare the final report
   5. Report to NHSRC, New Delhi

Data collection/analysis

* 1. Listing medical Devices
  2. Prepare the data entry form (excel sheet) for its functional status & Costs.
  3. Calculating the costs.
  4. Help the project lead in analyzing the data and preparing final report

**Time frame**

The total time-frame for this consultancy contract will be 45 days.

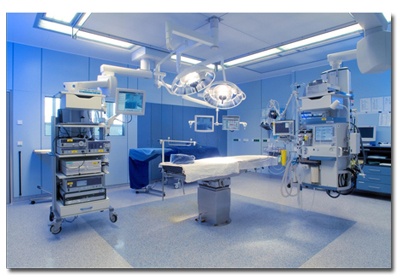
**Terms of Use of Intellectual Properties**

The scientific and technical outputs based on the data and report generated in this study is a joint work of NHSRC and the research partner. In any publication by the either relating to the results of this study, the other party will be acknowledged. The report, material and data including the analytical evidence on how conclusions were arrived at, associated with the study should not be used for any commercial purpose.

**CHAPTER-II**

**INTRODUCTION**

**Biomedical Engineering & Medical Equipments**

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**Biomedical engineering** is the application of engineering principles and design concepts to medicine and biology for healthcare purposes (e.g. diagnostic or therapeutic). This field seeks to close the gap between engineering and medicine: It combines the design and problem solving skills of engineering with medical and biological sciences to advance health care treatment, including diagnosis, monitoring, and therapy.[[1]](http://en.wikipedia.org/wiki/Biomedical_engineering#cite_note-EnderleBronzino2012-1) Biomedical engineering has only recently emerged as its own study, compared to many other engineering fields. Such an evolution is common as a new field transitions from being an interdisciplinary specialization among already-established fields, to being considered a field in itself. Much of the work in biomedical engineering consists of research and development, spanning a broad array of subfields. Prominent biomedical engineering applications include the development of biocompatible prostheses, various diagnostic and therapeutic medical devices ranging from clinical equipment to micro-implants, common imaging equipment such as MRIs and EEGs, regenerative tissue growth, pharmaceutical drug s and therapeutic biological .

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Biomedical Engineering is engineering of human physiology. In recent time Clinical Engineering Management, Clinical Technology Management, and Medical Equipment Management is often referred as Healthcare Technology Management. It is basically part of managing, maintaining, and designing medical devices used or proposed for use in different healthcare delivery organizations and locations from homes to clinics and hospitals. Health Technology Management includes related policies and procedures concerning activities such as the selection, planning, and acquisition of medical devices, on arrival inspection, acceptance, and maintenance and at the end condemnation or declaring unserviceable and disposal of medical equipment. Bio Medical Engineering is the application of engineering principles and design concepts to medicine and biology for healthcare purposes e.g. diagnostic or therapeutic. This field seeks to close the gap between engineering and medicine . It combines the design and problem solving skills of engineering with medical and biological sciences to advance healthcare treatment, including diagnosis, monitoring, and therapy. The aim of Biomedical Management has been defined as : “To ensure that equipment and systems used in patient care are operational, safe, and properly configured and calibrated to meet the mission of the healthcare. (b) That the equipment is used in an effective way consistent with the highest standards of care by educating the healthcare provider, equipment user, and patients. (c) That the equipment is designed to limit the potential for loss, harm, or damage to the patient, provider, visitor, and facilities

through various means of analysis prior to and during acquisition, (d) Monitoring and foreseeing problems during the lifecycle of the equipment, and collaborating with the parties who manufacturer, design, regulate, or recommend safe medical devices and systems. India has vast network of healthcare delivery facilities spread all over the country. Healthcare delivery to population is from public & private healthcare systems. Though exact number of hospitals, Nursing Homes, single Doctor allopathic clinics, Dental Clinics, and Diagnostic Centres in private sector is not known. However some data is available from different source

**SIKKIM IN INDIA**



**SIKKIM**



**Sikkim**  is a landlocked Indian state located in the Himalayan mountains. The state is bordered by Nepal to the west, China's Tibet Autonomous Region to the north and east, and Bhutan  to the east. The Indian state of West Bengal lies to the south. With 610,577 population as of the 2011 census Sikkim is the least populous state in India and the second-smallest state after Goa in total area, covering approximatately 7,096 km2  (2,740 sq mi).Sikkim is nonetheless geographically diverse due to its location in the Himalayas; the climate ranges from subtropical to high alpine , and Kangchenjunga the world's third-highest peak, is located on Sikkim's border with Nepal. Sikkim is a popular tourist destination, owing to its culture, scenery and biodiversity. It also has the only open land border between India and China. Sikkim's capital  and largest city is Gangtok



The number and The health care infrastructure is divided into three tiers — the primary health care network, a secondary care system comprising district and sub-divisional hospitals and tertiary hospitals providing specialty and super specialty care. A Chief Medical Officer of Health (C.M.O.H.) heads each of the eighteen districts. The responsibility of CMOH is to manage the primary health care sector and ensure the effective implementation of the various medical, health and family welfare programmes. The secondary level hospitals (sub-divisional and district hospitals) are headed by superintendents who report to the C.M.O.H. and are accountable to a hospital management committee. At the block level, the Block Medical Officer of Health (BMOH) is responsible for providing services and for monitoring and supervising the primary health centres and health programme implementation.

Sikkim Health Service provides the health care professionals for the state-wide infrastructure, while Medical Education Service employs teachers at the training institutions.

beds sanctioned in different types of healthcare setup, as published by the government of Sikkim, are in the following table. In this table, hospitals under other departments of state government include government undertaking organisations, and rural hospitals include those ones which were upgraded from block primary health center

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SLNO** | **HEALTH INSTITUTION** | **EAST** | **WEST** | **NORTH** | **SOUTH** | STATE |
| **1** | **STATE REFERRAL HOSPITAL/STNM HOSPITAL** | **1** | **-** | **-** | **-** | **1** |
| **2** | **DISTRICT HOSPITAL** | **1** | **1** | **1** | **1** | **4** |
| **3** | **\*COMMUNITY HEALTH CENTRE** | **1** | **-** | **-** | **1** | **2** |
| **4** | **PRIMARY HEALTH CENTRE** | **6** | **7** | **5** | **6** | **24** |
| **5** | **PRIMARY HEALTH SUB-CENTRE** | **48** | **41** | **18** | **39** | **146** |
| **6** | **DISTRICT TUBERCULOSIS CENTRE,NAMCHI** | **-** | **-** | **-** | **1** | **1** |
| **7** | **CENTRE REFERRAL HOSPITAL MANIPAL TADONG (PVT.)** | **1** | **-** | **-** | **-** | **1** |
| **8** | **TOTAL** | **58** | **49** | **24** | **48** | **179** |

**NUMBER OF HEALTH INSTITUTIONS IN SIKKIM**

**\*Remarks (1) Jorethang & Rhenock PHC is under process for upgradation to CHC**

## HOSPITAL BED SANCTIONED STRENGTH IN SIKKIM

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SLNO** | HEALTH INSTITUTIONS | **NO. OF BEDS** | | | | |
| **EAST** | **WEST** | **NORTH** | **SOUTH** | **STATE** |
| **1** | **STATE REFERRAL HOSPITAL** | **300** | **-** | **-** | **-** | **300** |
| **2** | **DISTRICT HOSPITAL** | **100** | **100** | **100** | **100** | **400** |
| **3** | **\*COMMUNITY HEALTH CENTRE** | **30** | **-** | **-** | **30** | **60** |
| **4** | **PRIMARY HEALTH CENTRE** | **60** | **70** | **50** | **60** | **240** |
| **4** | **DISTRICT TUBERCULOSIS CENTRE,NAMCHI** | **--** | **---** | **---** | **60** | **60** |
| **5** | **CENTRAL REFERRAL HOSPITAL, MANIPAL TADONG (PVT.)** | **500** | **---** | **---** | **-** | **500** |
|  | **TOTAL** | **990** | **170** | **150** | **250** | **1560** |

\* CHC – Bed strength is under process.

## Facilities Available at District Hospital



## 1. Outdoor Patient (OPD)

* + Dental Care OPD
  + ENT OPD
  + Eye OPD
  + Medical OPD
  + Orthopaedic OPD
  + Paediatric OPD
  + Surgical OPD
  + Psychiatric OPD
  + Dental OPD
  + Skin & VD OPD
  + Blood Bank
  + Specialist Services, Cardiology, Plastic Surgery, Neurology

**2** . **Indoor Facility & services**

* + ICU
  + CCU
  + Burn Ward
  + General Indoor Services for respective faculties
  + Anaesthetic Services

**3. Investigative Procedures**

* + Ultrasonography
  + CT Scan
  + X-Ray
  + Blood Bank Facility
  + Pathology Services

**4. Implementation of All National Programmes**

* Emergency Services
* Medico Legal
* 24 hour Ambulance service
* Post Mortem Services

1. **Family Welfare Services**- under this Post Partum centres are located providing following services.

* Counselling
* Ante Natal Care
* Abortion & Medical Termination of Pregnancy services
* Laparoscopic Abdominal Tubectomy & Non scalpel vasectomy
* Family Welfare Services like IUD insertion , Distribution of Oral Pills & Nirodh
* Universal Immunization Programme
* Emergency Services
* Medico Legal Services

**6. Ambulance Services**

## Facilities Available at Community Health Centre – Rural Hospitals

1. **Outdoor Patient (OPD)** 
   * Medical OPD
   * Surgical OPD
   * Paediatric OPD
   * Obstetrics & Gynaecology OPD
2. **Anaesthetic Services**
3. **Indoor Facility**
4. **Investigative Procedures** 
   * Ultrasonography (in selected Rural Hospitals)
   * X-Ray
   * Pathology
5. **Control of Epidemic, Endemic & Communicable DiseaseProgramme**
6. **Implementation of All National Programmes** 
   * Maternity & Child Health Programme
   * Family Welfare Programme
   * School Health Programme
   * Iodine Deficiency Control Programme
   * Blindness Control Programme
   * Malaria Control Programme
   * AIDS & HIV Control Programme
   * Leprosy Eradication Programme (Free distribution of MDT)
   * Tuberculosis Control Programme (Free Distribution of Medicines by DOTS Providers & Pathology Services)
   * Diarrhoeal Disease Control Programme
   * Universal Immunization Programme
7. **Provision of Micro Nutrients Like Vitamin A & Iron & Folic Acid**
8. **Safe Water Supply & Basic Sanitation**
9. **Behavioural Change Communication- Public awareness Campaign**
10. **Collection & Reporting of Vital Statistics**
11. **Reproductive and Child Health** 
    * Mother & Child Care
    * Janani Suraksha Yojna - JSY under NRHM
    * Universal Immunization Programme for Mother & Child
    * Pre, Intra & Post Dilivery Services
    * Family Welfare Services (Sterilization, Free Distribution of Oral Pills & Condoms)
12. **Referral Services**
13. **Emergency Services**

* Ambulance Services
* Medico Legal Services

## Facilities Available at Primary Health Centres



## 1. General OPD

1. Indoor Services (IPD)
2. Control of Epidemic, Endemic & Communicable Disease Programme
3. Implementation of All National Programmes
4. Maternity & Child Health Programme
5. Family Welfare Services
6. School Health Programme
7. Iodine Deficiency Control Programme
8. Blindness Control Programme
9. Malaria Control Programme
10. AIDS & HIV Control Programme
11. Leprosy Eradication Programme (Free distribution of MDT)
12. Tuberculosis Control Programme with Free Distribution of Medicines
13. j. Diarrhoera Disease Control Programme
14. k. Universal Immunization Programme
15. Provision of Micro Nutrient: Like Vitamin A & Iron & Folic Acid
16. Behavioural Change Communication- Public awareness Campaign
17. Safe Water Supply & Basic Sanitation
18. Collection & Reporting of Vital Statistics

2. **RCH (Reproductive and Child Health)**

* Mother & Child Care
* Janani Suraksha Yojna - JSY under NRHM
* Universal Immunization Programme for Mother & Child
* Pre, Intra & Post Delivery Services
* Family Welfare Services (Sterilization, Free Distribution of Oral Pills & Condoms)

3. **Referral Services**

4. **Emergency Services**

**CHAPTER-III**

**AIMS & OBJECTIVES OF THE STUDY**

There are number of hospitals and dispensaries in Public Sector Undertakings and other major service groups like Railway Hospitals, ONGC Hospitals, ESI Hospitals and so on. Functioning of all equipment in any healthcare facility is very critical for life saving, regular treatment and quality of care as a whole. It is well known that very often number of critical medical equipment are not functioning in public health facilities due to poor equipment management plan, lack of financial resources due to no budgetary provisions. There is a need to address this major gap in healthcare delivery infrastructure in the country.

The evaluation of pilot sites to undertake research to speculate “fiscal space” required for such an undertaking and to develop operational guidelines to establish best-practices in this domain; a study has been designed to be conducted in few states – one of each zone (North; South; East; West; Central) of India in a select district (median/UHC pilot district) and in all public health facilities in the selected district except the sub-centres.

**Aim :**

The aim of the present research study has been to find out the average number of medical equipment in District Hospital, Community Health Centre & Primary Health Centre , its average total cost and estimated average Annual Maintenance Cost (AMC) and Annual Comprehensive Maintenance Cost (CMC) for making a financial planning and budgeting model for a District and later scale it up to State and all India level.

**Objectives :**

1. Presently for management of medical equipment, since there is no provision of separate maintenance grant, recommend to the Governments for creating a separate financial head for the Equipment Maintenance Grant.

2. For making provisions for separate Maintenance Grant to be collected from few District Hospitals CHCs & PHCs of minimum 3- 4 States.

3. Create a sound data bases for working out average AMC & CMC budget required for DHs, CHCs, and PHCs for yearly financial planning , budgetary allocation

3. To recommend a model plan for various states for outsourcing “management and maintenance of bio-medical technology” inclusive of operational and financial guidelines.

4. Overall objective is to address the gap in technology management and maintenance in district and sub-district hospitals in the country,

5. Model has been conceived on the lines of public-private partnership.

**CHAPTER-IV**

**RESEARCH PROJECT METHODOLOGY**

**Methodology :-**

* **Study location: South District of Sikkim**

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | NAME OF THE HOSPITAL | BEDS | TYPE OF HOSPITAL |
| 1 | NAMCHI DISTRICT HOSPITAL | 100 | DISTRICT HOSPITAL(DH) |
| 2 | JORETHANG CHC | 30 | CHC |
| 3 | RAVANGALA PHC | 10 | PHC |
| 4 | TEMI PHC | 10 | PHC |
| 5 | BERMIOK PHC | 10 | PHC |
| 6 | YANGANG PHC | 10 | PHC |
| 7 | NAMTHANG PHC | 10 | PHC |
| 8 | MELLI PHC | 10 | PHC |

* **Study location:** West district of Sikkim

|  |  |  |  |
| --- | --- | --- | --- |
| S. No. | NAME OF THE HOSPITAL | BEDS | TYPE OF HOSPITAL |
| 1 | GEYZING, DISTRICT HOSPITAL | 100 | DISTRICT HOSPITAL(DH) |
| 2 | YOKSUM PHC | 10 | PHC |
| 3 | SENEK PHC | 10 | PHC |
| 4 | RINCHENPONG PHC | 10 | PHC |
| 5 | SORENG PHC | 10 | PHC |
| 6 | MANGALBARIA PHC | 10 | PHC |
| 7 | SOMBERIA PHC | 10 | PHC |
| 8 | DENTUM PHC | 10 | PHC |

**ii) Study design:** We did the total costs estimation of biomedical equipment taking account of its functioning status i.e. working or non-working. We have covered almost every section of the hospitals including SNCU, CCU, laboratory, X-ray department, Gynaecologist OT, emergency OT, eye OT, ortho-surgery OT, general surgery OT, S.O.T, Burn unit, CSSD, Blood bank, OPD, cabin, pathology unit, dental unit, ECG department, emergency ward, labour room, ENT department, and USG.

1. **Data Collection:** The study conducted during last week of Februay 2015 covered a sample size of 50 hospitals across the two districts . The approval was taken from Commissioner (FW) & Mission Director (NRHM) .
2. The data was collected from several sources including Stores records register,physical check-up and data collected from respective departments.

**iv) Costing method** : the costing method followed in the study includes three steps as follows:

**1.** Line Listing of equipment in district and sub-district facilities up to the level of PHC

**2.** Assessment of functional status of all the device/equipment

**3.** Capturing costs required to maintain all line listed equipment

The cost estimation of the existing biomedical equipments was done on the basis of its functional status and breakdown cost.

**CHAPTER-V**

**DETAILED STUDY AND FINDINGS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DETAILED STUDY OF MEDICAL EQUIPMENT IN GEYZING DISTRICT**  **(WEST DISTRICT,SIKKIM)** | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| S.No. | Name of the Institution | Beds | TYPE OF HOSPITAL | Total Equipment | Total Cost of Equipment ` | No. of Working Equipment | No. of NOT Working Equipment | % of D’fuction equipt |
| 1 | GEYZING | 100 | DISTRICT | 108 | 9409000 | 78 | 30 | 27.777 |
| 2 | YUKSOM | 10 | PHC | 21 | 398900 | 20 | 1 | 4.76 |
| 3 | SENEK (TASHADING) | 10 | PHC | 24 | 467900 | 15 | 9 | 37.5 |
| 4 | DENTAM | 10 | PHC | 26 | 746900 | 18 | 8 | 30.77 |
| 5 | RINCHINPONG | 10 | PHC | 21 | 486200 | 12 | 9 | 42.85 |
| 6 | MANGAL BAREY | 10 | PHC | 24 | 816900 | 16 | 8 | 33.33 |
| 7 | SOMBARIA | 10 | PHC | 21 | 575900 | 16 | 5 | 23.8 |
| 8 | SORENG | 10 | PHC | 19 | 1097200 | 11 | 8 | 42.1 |

|  |
| --- |
| **Contact Details of Officers in West District ( Geyzing )** |
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| **SENEK** |
| M.O Dr. PRABHAT RAI 9533273243 |
| STORE KEEPER Mr. UDAY CHATTRI 8670973996 |
| **DENTAM** |
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| STORE KEEPER Mr. ROBIN 8906069861 |
| **RINCHINPONG** |
| M.O Dr. AMBAR SUBBA 9733064953 |
| STORE KEEPER NISHA 8927218824 |
| **MANGALBAREY** |
| M.O Dr. ROSHNI 8116239354 |
| STORE KEEPER BEENITA SUBBA 9733143299 |
| **SOMBARIA** |
| M.O Dr. B.K CHAWAN 9932908078 , 74073254321 |
| LAB INCHARGE DURGA DEVI CHETTRI 9734116022 |
| **SORENG** |
| M.O Dr. VIRENDER SUBBA 9733137085 |
| LAB INCHARGE SUREN SUBBA 9734994990 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EQUIPMENT MAPPING PROGRAMME** | | | | | | | | | |
|
| **GEYZING DISTRICT HOSPITAL,WEST SIKKIM,SIKKIM** | | | | | | | | | |
| ***S.***  ***No.*** | ***Equipment category*** | ***Equipment name*** | ***Qty*** | ***Manufacturer*** | ***Model*** | ***Installation date***  ***( 7)*** | ***TOTAL COST OF EQUIPMENT*** | ***Working status*** | |
| ***(1 )*** | ***(2)*** | ***(3)*** | ***(4)*** | ***(5)*** | ***(6)*** | ***(8)*** | ***W***  ***(9)*** | ***NW***  ***(10)*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***26/6/2010*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***FULLY AUTO ANALYZER*** | ***1*** | ***TRANSARA*** | ***EM200*** | ***26/6/2010*** | ***2500000*** |  | ***YES*** |
| ***3*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***GDE26BI*** | ***#*** | ***10000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***24/6/2001*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***23/6/2009*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***GDD310PZOP*** | ***26/10/2010*** | ***10000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***SNI*** | ***-*** | ***#*** | ***10000*** |  | ***YES*** |
| ***8*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***#*** | ***15500*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***MAGNUS*** | ***#*** | ***15500*** |  | ***YES*** |
| ***10*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***MAGNUS*** | ***#*** | ***15500*** |  | ***YES*** |
| ***11*** | ***LAB*** | ***CELL COUNTER*** | ***1*** | ***SYSMEX*** | ***KX-21*** | ***31/7/2007*** | ***350000*** | ***YES*** |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***(1)***  ***12*** | ***(2)***  ***LAB*** | ***(3)***  ***ELECTROLYTE ANALYZER*** | ***(4)***  ***1*** | ***(5)***  ***MEDICA Easy lite plus*** | (6) | ***(7)***  ***26/10/2010*** | ***(8)***  ***175000*** | ***(9)*** | ***(10)***  ***YES*** |
| ***13*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***26/10/2010*** | ***25000*** | ***YES*** |  |
| ***14*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***R-8C*** | ***26/6/2010*** | ***6500*** | ***YES*** |  |
| ***15*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***GD-19*** | ***10/11/2005*** | ***10000*** | ***YES*** |  |
| ***16*** | ***FEMALE WARD*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***17*** | ***FEMALE WARD*** | ***ROOM HEATER*** | ***1*** | ***K.G CROWN*** | ***#*** | ***#*** | ***2000*** | ***YES*** |  |
| ***18*** | ***FEMALE WARD*** | ***NEBULIZER*** | ***1*** | ***NIDEK*** | ***4235CE*** | ***#*** | ***4500*** | ***YES*** |  |
| ***19*** | ***FEMALE WARD*** | ***NEBULIZER*** | ***1*** | ***ANGEL*** | ***JN207*** | ***#*** | ***4500*** | ***YES*** |  |
| ***20*** | ***FEMALE WARD*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIX*** | ***#*** | ***1/8/2013*** | ***6500*** | ***YES*** |  |
| ***21*** | ***TB CELL*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***6/30/1905*** | ***15500*** | ***YES*** |  |
| ***22*** | ***X-RAY ROOM*** | ***X-RAY (300mA)*** | ***1*** | ***M.E X-RAY Pvt. Ltd.*** | ***HT 2000*** | ***10/2/2003*** | ***450000*** | ***YES*** |  |
| ***23*** | ***X-RAY ROOM*** | ***X-RAY (500mA)*** | ***1*** | ***M.E X-RAY Pvt. Ltd.*** | ***HT 2000*** | ***7/7/1905*** | ***450000*** | ***YES*** |  |
| ***24*** | ***ULTRA***  ***SOUND ROOM*** | ***ULTRASOUND MACHINE*** | ***1*** | ***SIEMENS*** | ***PG1W*** | ***#*** | ***450000*** | ***YES*** |  |
| ***25*** | ***NICU*** | ***BABY WARMER*** | ***1*** | ***NEOTECH*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***26*** | ***NICU*** | ***BABY WARMER*** | ***1*** | ***NEOTECH*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***(1)***  ***27*** | ***(2)***  ***NICU*** | ***(3)***  ***BABY WARMER*** | ***(4)***  ***1*** | ***(5)***  ***NEOTECH*** | ***(6)***  ***#*** | ***(7)***  ***#*** | ***(8)***  ***38000*** | ***(10)***  ***YES*** | ***(11)*** |
| ***28*** | ***NICU*** | ***WEIGHING MACHINE*** | ***1*** | ***CROWN*** | ***CR203L*** | ***#*** | ***3000*** | ***YES*** |  |
| ***29*** | ***NICU*** | ***SUCTION MACHINE*** | ***1*** | ***SHIVA*** | ***#*** | ***21/1/2013*** | ***6500*** | ***YES*** |  |
| ***30*** | ***OT ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***26/6/2009*** | ***70000*** | ***YES*** |  |
| ***31*** | ***OT ROOM*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***SS-251*** | ***2013*** | ***70000*** | ***YES*** |  |
| ***32*** | ***OT ROOM*** | ***OT LIGHT*** | ***1*** | ***SCORPIAN*** | ***#*** | ***2013*** | ***8000*** | ***YES*** |  |
| ***33*** | ***OT ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***2009*** | ***70000*** | ***YES*** |  |
| ***34*** | ***OT ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***ANAND*** | ***AspirateMB-36*** | ***2013*** | ***6500*** | ***YES*** |  |
| ***35*** | ***OT ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***ANAND*** | ***AspirateMB-36*** | ***2013*** | ***6500*** | ***YES*** |  |
| ***36*** | ***OT ROOM*** | ***BABY WARMER*** | ***1*** | ***NEOTECH*** | ***UNNAMED*** | ***2/2/2014*** | ***38000*** | ***YES*** |  |
| ***37*** | ***OT ROOM*** | ***WEIGHING MACHINE*** | ***1*** | ***CROWN*** | ***#*** | ***#*** | ***3000*** | ***YES*** |  |
| ***38*** | ***OT ROOM*** | ***Anaesthesia Machine*** | ***1*** | ***Date X-OMEDS*** | ***AMKE00104*** | ***2006*** | ***450000*** | ***YES*** |  |
| ***39*** | ***OT ROOM*** | ***PATIENT MONITOR*** | ***1*** | ***DRAGER*** | ***INFINITY VISTA*** | ***2006*** | ***85000*** |  | ***YES*** |
| ***40*** | ***OT ROOM*** | ***Anaesthesia Machine*** | ***1*** | ***Date X-OMEDS*** | ***#*** | ***2002*** | ***450000*** |  | ***YES*** |
| ***41*** | ***OT ROOM*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***SS-251*** | ***2008*** | ***70000*** |  | ***YES*** |
| ***42*** | ***OT ROOM*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***SS-251*** | ***23/6/2009*** | ***70000*** | ***YES*** |  |
| ***(1)***  ***43*** | ***(2)***  ***OT ROOM*** | ***(3)***  ***OT TABLE*** | ***(4)***  ***1*** | ***(5)***  ***COGNATE*** | ***(6)***  ***SS-251*** | ***(7)***  ***23/6/2009*** | ***(8)***  ***70000*** | ***(9)***  ***YES*** | ***(10)*** |
| ***44*** | ***OT ROOM*** | ***FUMIGATION MACHINE*** | ***1*** | ***#*** | ***#*** | ***13/2/2014*** | ***4500*** | ***YES*** |  |
| ***45*** | ***OT ROOM*** | ***FUMIGATION MACHINE*** | ***1*** | ***#*** | ***#*** | ***13/2/2014*** | ***4500*** | ***YES*** |  |
| ***46*** | ***OT ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***2009*** | ***70000*** |  | ***YES*** |
| ***47*** | ***OT ROOM*** | ***MICROSCOPE*** | ***1*** | ***HS MOLLER WEDEL INTERNATIONAL*** | ***FSI-12*** | ***#*** | ***1500000*** | ***YES*** |  |
| ***48*** | ***OT ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***NOT FOUND*** | ***2009*** | ***70000*** | ***YES*** |  |
| ***49*** | ***OT ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***NOT FOUND*** | ***#*** | ***4500*** | ***YES*** |  |
| ***50*** | ***OT ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***ANAND*** | ***NOT WRITTEN*** | ***2014*** | ***6500*** | ***YES*** |  |
| ***51*** | ***STORE ROOM*** | ***BABY WARMER*** | ***1*** | ***MEDITRIN*** | ***NOT WRITTEN*** | ***#*** | ***38000*** |  | ***YES*** |
| ***52*** | ***STORE ROOM*** | ***BABY WARMER*** | ***1*** | ***MEDITRIN*** | ***NOT WRITTEN*** | ***#*** | ***38000*** |  | ***YES*** |
| ***53*** | ***ANC/NBH*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***NOT WRITTEN*** | ***#*** | ***4500*** | ***YES*** |  |
| ***54*** | ***ANC/NBH*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***NOT WRITTEN*** | ***#*** | ***1200*** | ***YES*** |  |
| ***55*** | ***ANC/NBH*** | ***NEEDLE DISTROYER*** | ***1*** | ***YORK SCIENTIFIC*** | ***NOT WRITTEN*** | ***#*** | ***1200*** | ***YES*** |  |
| ***56*** | ***GYNI-CLINIC*** | ***LAMP*** | ***1*** | ***NO NAME*** | ***#*** | ***#*** | ***6500*** |  | ***YES*** |
| ***57*** | ***STIRLIZATION ROOM*** | ***WASTE SHREDER*** | ***1*** | ***YORCO*** | ***#*** | ***21/6/2013*** | ***350000*** | ***YES*** |  |
| ***(1)***  ***58*** | ***(2)***  ***STIRLIZATION ROOM*** | ***(3)***  ***VERTICAL AUTOCLAVE*** | ***(4)***  ***1*** | ***(5)***  ***INDFOS*** | ***(6)***  ***110*** | ***(7)***  ***#*** | ***(8)***  ***10000*** | ***(9)***  ***YES*** | ***(10)*** |
| ***59*** | ***STIRLIZATION ROOM*** | ***HORIZONTAL AUTOCLAVE*** | ***1*** | ***YORCO*** | ***#*** | ***20/2/2003*** | ***250000*** | ***YES*** |  |
| ***60*** | ***STIRLIZATION ROOM*** | ***NEBULIZER*** | ***1*** | ***\**** | ***#*** | ***5/5/2013*** | ***4500*** |  | ***YES*** |
| ***61*** | ***STIRLIZATION ROOM*** | ***RADIENT WARMER*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** |  | ***YES*** |
| ***62*** | ***MORTUA-RY ROOM*** | ***FREEZER MORTUARY CABINATE*** | ***1*** | ***YORCO*** | ***YSI-177*** | ***6/7/2009*** | ***800000*** | ***YES*** |  |
| ***63*** | ***STORE ROOM***  ***(OUTER)*** | ***PHOTOTHEREPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***15500*** |  | ***YES*** |
| ***64*** | ***STORE ROOM***  ***(OUTER)*** | ***PHOTOTHEREPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***15500*** |  | ***YES*** |
| ***65*** | ***STORE ROOM***  ***(OUTER)*** | ***PHOTOTHEREPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***15500*** |  | ***YES*** |
| ***66*** | ***STORE ROOM***  ***(OUTER)*** | ***NEEDLE DISTROYER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***1200*** |  | ***YES*** |
| ***67*** | ***STORE ROOM***  ***(OUTER)*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***GDN180P20P*** | ***21/10/2010*** | ***10000*** | ***YES*** |  |
| ***68*** | ***MALE WARD*** | ***SUCTION MACHINE*** | ***1*** | ***J.E MEDI GUARD*** | ***\**** | ***#*** | ***6500*** | ***YES*** |  |
| ***69*** | ***MALE WARD*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***70*** | ***MINOR O.T*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***71*** | ***MINOR O.T*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***72*** | ***MINOR O.T*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***(1)***  ***73*** | ***(2)***  ***MINOR O.T*** | ***(3)***  ***OT LIGHT*** | ***(4)***  ***1*** | ***(5)***  ***COGNATE*** | ***(6)***  ***#*** | ***(7)***  ***#*** | ***(8)***  ***70000*** | ***(9)***  ***YES*** | ***(10)*** |
| ***74*** | ***LABOUR ROOM*** | ***BABY WARMER*** | ***1*** | ***MEDITRIN*** | ***#*** | ***20/2/2013*** | ***38000*** | ***YES*** |  |
| ***75*** | ***LABOUR ROOM*** | ***FETAL DOPPLER*** | ***1*** | ***BPL*** | ***FM 9854*** | ***13/2/2014*** | ***25000*** | ***YES*** |  |
| ***76*** | ***LABOUR ROOM*** | ***FETAL DOPPLER*** | ***1*** | ***BPL*** | ***FD9713N*** | ***13/2/2014*** | ***25000*** | ***YES*** |  |
| ***77*** | ***LABOUR ROOM*** | ***FETAL DOPPLER*** | ***1*** | ***EMCO*** | ***DHR110*** | ***13/2/2014*** | ***25000*** | ***YES*** |  |
| ***78*** | ***LABOUR ROOM*** | ***PULSE OXIMETER*** | ***1*** | ***BPL*** | ***#*** | ***25/2/2014*** | ***55000*** | ***YES*** |  |
| ***79*** | ***LABOUR ROOM*** | ***INFUSION PUMP*** | ***1*** | ***PLENUMTE P2*** | ***IMAC 304 DR*** | ***25/2/2014*** | ***40000*** | ***YES*** |  |
| ***80*** | ***LABOUR ROOM*** | ***BABY WARMER*** | ***1*** | ***NEOTECH*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***81*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SHIVA*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***82*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** |  | ***#*** | ***#*** | ***25000*** | ***YES*** |  |
| ***83*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** |  | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***84*** | ***LABOUR ROOM*** | ***OT LIGHT*** | ***1*** | ***SCORPIAN*** | ***#*** | ***13/2/2014*** | ***70000*** |  | ***YES*** |
| ***85*** | ***LABOUR ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** |  | ***YES*** |
| ***86*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** |  | ***\**** | ***#*** | ***4500*** |  | ***YES*** |
| ***87*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** |  | ***\**** | ***#*** | ***4500*** |  | ***YES*** |
| ***88*** | ***LABOUR ROOM*** | ***NEEDLE DISTROYER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***1200*** |  | ***YES*** |
| ***(1)***  ***89*** | ***(2)***  ***LABOUR ROOM*** | ***(3)***  ***NEBULIZER*** | ***(4)***  ***1*** | ***(5)***  ***READY MIST*** | ***(6)***  ***#*** | ***(7)***  ***16/12/2013*** | ***(8)***  ***4500*** | ***(9)***  ***YES*** | ***(10)*** |
| ***90*** | ***WASTE MANAGEMENT*** | ***INCRINERATOR*** | ***1*** | ***UNIQUE CONTROL Pvt.Ltd.*** | ***#*** | ***22/6/2003*** | ***2500000*** | ***YES*** |  |
| ***91*** | ***MCH*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***YORCO*** | ***IEBIG*** | ***#*** | ***10000*** |  | ***YES*** |
| ***92*** | ***MCH*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***YORCO*** | ***IEBIG*** | ***#*** | ***10000*** |  | ***YES*** |
| ***93*** | ***MCH*** | ***LAMP*** | ***1*** | ***LOCAL MFG*** | ***\**** | ***#*** | ***6500*** | ***YES*** |  |
| ***94*** | ***PHYSIOTHEREPY*** | ***NO EQUIPMENT FOUND*** | ***1*** |  | ***\**** | ***#*** | ***0*** |  |  |
| ***95*** | ***DENTAL ROOM*** | ***DENTAL CHAIR*** | ***1*** | ***CONFIDENT*** | ***IV*** | ***#*** | ***150000*** |  | ***YES*** |
| ***96*** | ***DENTAL ROOM*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***97*** | ***DENTAL ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***\**** | ***-*** | ***4500*** | ***YES*** |  |
| ***98*** | ***DENTAL ROOM*** | ***OVEN*** | ***1*** | ***YORCO*** | ***\**** | ***4/8/2003*** | ***25000*** |  | ***YES*** |
| ***99*** | ***DENTAL ROOM*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***\**** | ***#*** | ***1200*** |  | ***YES*** |
| ***100*** | ***DENTAL ROOM*** | ***NEEDLE DISTROYER*** | ***1*** | ***NO NAME*** | ***\**** | ***#*** | ***1200*** |  | ***YES*** |
| 101 | ***DENTAL ROOM*** | ***DENTAL CHAIRwith Compressor*** | ***1*** | ***CONFIDENT*** | ***C 48*** | ***#*** | ***150000*** |  | ***YES*** |
| ***102*** | ***EYE/OPTHAMOLOGY*** | ***AUTO REFRECTOR*** | ***1*** | ***UNICOS*** | ***URK-700*** | ***19/3/2009*** | ***450000*** | ***YES*** |  |
| ***103*** | ***EYE/OPTHAMOLOGY*** | ***Sterilizer*** | ***1*** | ***STURDY*** | ***SA-232X*** | ***31/3/2009*** | ***4500*** | ***YES*** |  |
| ***(1)***  ***104*** | ***(2)***  ***EYE/OPTHAMOLOGY*** | ***(3)***  ***LASER(YAG)*** | ***(4)***  ***1*** | ***(5)***  ***PULSA***  ***(LIGHT MED)*** | ***(6)***  ***S4L9000*** | ***(7)***  ***4/5/2011*** | ***(8)***  ***450000*** | ***(9)***  ***YES*** | ***(10)*** |
| ***105*** | ***EYE/OPTHAMOLOGY*** | ***SLIT LAMP*** | ***1*** | ***HAAGSTREIT International*** | ***BM900*** | ***#*** | ***110000*** | ***YES*** |  |
| ***106*** | ***EYE/OPTHAMOLOGY*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***107*** | ***EYE/OPTHAMOLOGY*** | ***MICROSCOPE*** | ***1*** | ***MICROFEX-F*** | ***6SI-12*** | ***8/5/2013*** | ***1200000*** | ***YES*** |  |
| ***108*** | ***TB CENTRE*** | ***DEHUMIDIFIER*** | ***1*** | ***ADVANCE*** | ***ALDF 120*** | ***#*** | ***5000*** | ***YES*** |  |
| ***109*** | ***TB CENTRE*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***SAMSUNG*** | ***857*** | ***#*** | ***10000*** | ***YES*** |  |
| ***110*** | ***TB CENTRE*** | ***HEATER*** | ***1*** | ***CROWN*** | ***#*** | ***#*** | ***2000*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **100** | **Total No. of equipment** | **108** |
| **No. of staff** | **124** | **Total equipment cost** | **9409000** |
|  | | **Total AMC/CMC value** | **658630** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EUIPMENTS LIST** | | | | | | | | | |
|
| **YOKSOM PHC,SOUTH SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST OF EQUIPMENT*** | ***(9)***  ***Working status*** | |
|  |  |  |  |  |  |  | ***W*** | ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***31/07/2010*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C852*** | ***18/7/2010*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***31/7/2010*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***31/7/2010*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***MAGNUS*** | ***3/1/2002*** | ***15500*** |  | ***YES*** |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***31/7/2010*** | ***15500*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***FRIDGE(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185*** | ***31/7/2010*** | ***10000*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***COLORIMETER*** | ***1*** | ***SYSTRONICS*** | ***112*** | ***31/7/2010*** | ***3500*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***NEEDLE DESTROYER*** | ***1*** | ***HOSPITIME*** | ***\**** | ***18/04/2007*** | ***1200*** | ***YES*** |  |
| ***10*** | ***OPD*** | ***NEEDLE DESTROYER*** | ***1*** | ***HOSPITIME*** | ***\**** | ***18/04/2007*** | ***1200*** | ***YES*** |  |
| ***11*** | ***OPD*** | ***HEATER*** | ***1*** | ***PYRAMIS*** | ***\**** | ***12/3/2014*** | ***2000*** | ***YES*** |  |
| ***(1)***  ***12*** | ***(2)***  ***CHECK UP ROOM*** | ***(3)***  ***NEBULIZER*** | ***(4)***  ***1*** | ***(5)***  ***MICELFLUSS*** | ***(6)***  ***F400*** | ***(7)***  ***18/04/2007*** | ***(8)***  ***4500*** | ***(9)***  ***YES*** | ***(10)*** |
| ***13*** | ***MCH CLINIC*** | ***WATER BOILER*** | ***1*** | ***HANABISHI*** | ***KP-435*** | ***12/3/2014*** | ***10000*** | ***YES*** |  |
| ***14*** | ***LABOUR ROOM*** | ***Radient warmer with photo therepy*** | ***1*** | ***MEDITRIN*** | ***NOT WRITTEN*** | ***18/04/2007*** | ***38000*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (ELECTRIC)*** | ***1*** | ***SURGI VAC*** | ***\**** | ***18/04/2007*** | ***6500*** | ***YES*** |  |
| ***16*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (FOOT)*** | ***1*** | ***\**** | ***\**** | ***18/04/2007*** | ***4500*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (ELECTRIC)*** | ***1*** | ***SURGI VAC*** | ***\**** | ***18/04/2007*** | ***6500*** | ***YES*** |  |
| ***18*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***\**** | ***\**** |  | ***14000*** | ***YES*** |  |
| ***19*** | ***DRESSING ROOM*** | ***STIRLIZER*** | ***1*** | ***LIFE X*** | ***\**** | ***18/04/2007*** | ***4500*** | ***YES*** |  |
| ***20*** | ***DRESSING ROOM*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***INDFOS*** | ***NOT FOUND*** | ***18/04/2007*** | ***10000*** | ***YES*** |  |
| ***21*** | ***DRESSING ROOM*** | ***O.T LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***18/04/2007*** | ***70000*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **21** |
| **No. of staff** | **18** | **Total equipment cost** | **398900** |
|  | | **Total AMC/CMC value** | **27923** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **SENEK PHC,WEST SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)*** | ***Working status*** | |
|  |  |  |  |  |  | ***TOTAL COST OF EQUIPMENT*** | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***#*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***FOR REPAIRING*** | ***\**** | ***#*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i BIMF*** | ***#*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***#*** | ***10000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***COLORIMETER*** | ***1*** | ***SYSTRONICS*** | ***\**** | ***#*** | ***3500*** | ***YES*** |  |
| ***8*** | ***MCH CLINIC*** | ***STIRLIZER*** | ***1*** | ***INDFOS LIFEX*** | ***\**** | ***#*** | ***4500*** | ***YES*** |  |
| ***9*** | ***MCH CLINIC*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***INDFOS LIFEX*** |  | ***28/2/2007*** | ***10000*** |  | ***YES*** |
| ***10*** | ***MCH CLINIC*** | ***NEEDLE DISTROYER*** | ***1*** | ***MEDIGOLD*** | ***\**** | ***16/12/2013*** | ***1200*** | ***YES*** |  |
| ***11*** | ***MCH CLINIC*** | ***STIRLIZER*** | ***1*** | ***INDFOS LIFEX*** | ***#*** | ***28/02/2007*** | ***4500*** | ***YES*** |  |
| ***12*** | ***MCH CLINIC*** | ***WEIGHING MACHINE*** | ***1*** | ***PRESTIGE*** | ***#*** | ***#*** | ***3000*** | ***YES*** |  |
| ***13*** | ***MCH CLINIC*** | ***HEATER*** | ***1*** | ***CROWN*** | ***#*** | ***#*** | ***2000*** |  | ***YES*** |
| ***14*** | ***LABOUR ROOM*** | ***Radient warmer with photo therepy*** | ***1*** | ***MEDITRIN*** | ***NOT WRITTEN*** | ***28/2/2007*** | ***38000*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***2*** | ***LOCAL MFG*** | ***NOT WRITTEN*** | ***28/2/2007*** | ***28000*** |  | ***YES*** |
| ***16*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (ELECTRIC)*** | ***1*** | ***SURGI VAC*** | ***#*** | ***28/2/2008*** | ***6500*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***NEBULIZER*** | ***1*** | ***AEROMAC*** | ***NEBO02-A20*** | ***5/7/2013*** | ***4500*** | ***YES*** |  |
| ***18*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***#*** | ***70000*** |  | ***YES*** |
| ***19*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** |  | ***YES*** |
| ***20*** | ***MINOR OT*** | ***HEATER*** | ***1*** | ***DISTAR*** | ***#*** | ***28/02/2007*** | ***2000*** |  | ***YES*** |
| ***21*** | ***MINOR OT*** | ***NEBULIZER*** | ***1*** | ***LIFE LINE*** | ***#*** | ***28/02/2007*** | ***4500*** |  | ***YES*** |
| ***22*** | ***MINOR OT*** | ***NEEDLE DISTROYER*** | ***1*** | ***#*** | ***#*** | ***16/12/2003*** | ***1200*** | ***YES*** |  |
| ***23*** | ***OPD*** | ***WEIGHING MACHINE*** | ***1*** | ***PRESTIGE*** | ***#*** | ***#*** | ***3000*** |  | ***YES*** |
| ***24*** | ***OPD*** | ***SUCTION MACHINE***  ***(FOOT)*** | ***1*** | ***SHIVA*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **24** |
| **No. of staff** | **21** | **Total equipment cost** | **467900** |
|  | | **Total AMC/CMC value** | **32753** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **DENTAM PHC,WEST SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST OF EQUIPMENT*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***#*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C-852*** | ***#*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** |  | ***YES*** |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***HI 100*** | ***#*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***LABOMED*** | ***VISION 200*** | ***#*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***#*** | ***10000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***COLORIMETER*** | ***1*** | ***SYSTRONICS*** | ***#*** | ***#*** | ***3500*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***Needle destroyer*** | ***1*** | ***HOSPI-TIME*** | ***#*** | ***#*** | ***1200*** |  | ***YES*** |
| ***9*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***R8C*** | ***#*** | ***6500*** |  | ***YES*** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***10*** | ***MCH CLINIC*** | ***NEEDLE DISTROYER*** | ***1*** | ***MEDIGOLD*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***11*** | ***MCH CLINIC*** | ***LAMP*** | ***1*** |  | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***12*** | ***MCH CLINIC*** | ***REFRIGERATOR*** | ***1*** | ***DULAS SOLAR INTERNATIONAL*** | ***#*** | ***#*** | ***35000*** | ***YES*** |  |
| ***13*** | ***MCH CLINIC*** | ***HEATER*** | ***1*** | ***BAJAJ*** | ***#*** | ***#*** | ***2000*** | ***YES*** |  |
| ***14*** | ***L ABOUR ROOM*** | ***Radient warmer with photo therepy*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** |  | ***YES*** |
| ***15*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***2*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***28000*** |  | ***YES*** |
| ***16*** | ***LABOUR ROOM*** | ***LAMP*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***17*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***#*** | ***70000*** |  | ***YES*** |
| ***18*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** |  | ***YES*** |
| ***19*** | ***MINOR OT*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-438*** | ***#*** | ***25000*** |  | ***YES*** |
| ***20*** | ***DENTAL ROOM*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***21*** | ***DENTAL***  ***ROOM*** | ***DENTAL CHAIR with COMPRESSOR*** | ***1*** | ***CONFIDENT*** | ***#*** | ***#*** | ***150000*** | ***YES*** |  |
| ***22*** | ***DENTAL ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***23*** | ***INDOOR*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***24*** | ***INDOOR*** | ***NEBULIZER*** | ***1*** | ***MEDEL*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***25*** | ***INDOOR*** | ***HEATER*** | ***1*** | ***BAJAJ*** | ***\**** | ***#*** | ***2000*** | ***YES*** |  |
| ***26*** | ***INDOOR*** | ***REFRIGERATOR*** | ***1*** | ***NO NAME*** | ***\**** | ***#*** | ***10000*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **26** |
| **No. of staff** | **19** | **Total equipment cost** | **704100** |
|  | | **Total AMC/CMC value** | **49287** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **RINCHINPONG PHC,WEST SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)*** | ***Working status*** | |
|  |  |  |  |  |  | ***TOTAL COST OF EQUIPMENT*** | ***(9)***  ***W*** | ***(10)NW*** |
| ***1*** | ***LAB*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***18/8/2010*** | ***125000*** |  | ***YES*** |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C-852*** | ***18/8/2010*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***18/8/2010*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***18/8/2010*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***OIC*** | ***15/2/2001*** | ***15500*** |  | ***YES*** |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***MAGNUS*** | ***15/2/2001*** | ***15500*** |  | ***YES*** |
| ***7*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i BMF*** | ***15/2/2001*** | ***15500*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***15/2/2001*** | ***10000*** | ***YES*** |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***9*** | ***LABOUR ROOM*** | ***Radient warmer with photo therepy*** | ***1*** | ***MEDITRIN*** | ***#*** | ***2/3/-2007*** | ***38000*** |  | ***YES*** |
| ***10*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***2/3/-2007*** | ***14000*** |  | ***YES*** |
| ***11*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI-VAC*** | ***#*** | ***2/3/-2007*** | ***6500*** | ***YES*** |  |
| ***12*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** | ***LIFE X*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***13*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***#*** | ***70000*** |  | ***YES*** |
| ***14*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** |  | ***YES*** |
| ***15*** | ***MINOR OT*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***INDFOS*** | ***#*** | ***2/3/-2007*** | ***10000*** | ***YES*** |  |
| ***16*** | ***MINOR OT*** | ***STIRLIZER*** | ***1*** | ***LOCAL MFG*** | ***#*** | ***2/3/-2007*** | ***4500*** | ***YES*** |  |
| ***17*** | ***MINOR OT*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***2/3/-2007*** | ***1200*** | ***YES*** |  |
| ***18*** | ***NURSES DUTY ROOM*** | ***NEBULIZER*** | ***1*** | ***ELAEM*** | ***#*** | ***2/3/-2007*** | ***4500*** | ***YES*** |  |
| ***19*** | ***DENTAL ROOM*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***20*** | ***DENTAL ROOM*** | ***DENTAL CHAIR with COMPRESSOR*** | ***1*** | ***CONFIDENT*** | ***C-115 A*** | ***#*** | ***150000*** |  | ***YES*** |
| ***21*** | ***DENTAL ROOM*** | ***STIRLIZER*** | ***1*** | ***LIFEX*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **21** |
| **No. of staff** | **20** | **Total equipment cost** | **486200** |
|  | | **Total AMC/CMC value** | **34034** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **MANGALBARIA PHC,WEST SIKKIM** | | | | | | | | | |
| ***(1)***  ***S***  ***.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST OF EQUIPMENTS*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREZ*** | ***GDN185B*** | ***#*** | ***10000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***852*** | ***#*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***MICROSCOPE*** |  | ***OLYMPUS*** | ***CH20IBIMF*** | ***#*** | ***15500*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5 PLUS*** | ***#*** | ***125000*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***SYRINGE DESTROYER*** | ***1*** | ***HOSPI+TIME*** |  | ***#*** | ***1200*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***DIGITAL COLLIMETER*** | ***1*** | ***SYSTRONICS*** | ***JLLC-7627*** | ***#*** | ***3500*** | ***YES*** |  |
| ***9*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-07*** | ***#*** | ***70000*** |  | ***YES*** |
| ***10*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***11*** | ***MINOR OT*** | ***LAMP*** | ***1*** |  | ***#*** | ***#*** | ***6500*** |  | ***YES*** |
| ***12*** | ***MCH*** | ***BOILER*** | ***1*** | ***\**** | ***\**** | ***#*** | ***4500*** |  | ***YES*** |
| ***13*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTOTHERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** |  | ***YES*** |
| ***14*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***14000*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***\**** | ***\**** | ***#*** | ***4500*** |  | ***YES*** |
| ***16*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***\**** | ***\**** | ***#*** | ***4500*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***\**** | ***#*** | ***6500*** | ***YES*** |  |
| ***18*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***\**** | ***#*** | ***6500*** |  | ***YES*** |
| ***19*** | ***DRESSING ROOM*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***\**** | ***#*** | ***#*** | ***10000*** |  | ***YES*** |
| ***20*** | ***DRESSING ROOM*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***\**** | ***#*** | ***#*** | ***10000*** |  | ***YES*** |
| ***21*** | ***DRESSING ROOM*** | ***BOILER*** | ***1*** | ***\**** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***22*** | ***DRESSING ROOM*** | ***BOILER*** | ***1*** | ***\**** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***23*** | ***DRESSING ROOM*** | ***NEEDLE DESTROYER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***24*** | ***X RAY ROOM*** | ***X RAY MACHINE (60mA)*** | ***1*** | ***SIEMENS*** | ***5272*** | ***#*** | ***450000*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **24** |
| **No. of staff** | **23** | **Total equipment cost** | **816900** |
|  | | **Total AMC/CMC value** | **57183** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **SOMBARIA PHC,WEST SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)NW*** |
| ***1*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREZ*** | ***GDN185B*** | ***Jul/11*** | ***10000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***C-852*** | ***Jul/11*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***Jul/11*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20IBIMF*** | ***Jul/11*** | ***15500*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5 PLUS*** | ***Jul/11*** | ***125000*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***Jul/11*** | ***25000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***SYRINGE DESTROYER*** | ***1*** | ***OSPI+TIME*** | ***#*** | ***Jul/11*** | ***1200*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***MLW*** | ***#*** | ***#*** | ***15500*** |  | ***YES*** |
| ***9*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORK SCIENTIFIC INDUSTRIES*** | ***#*** | ***#*** | ***25000*** |  | ***YES*** |
| ***10*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***11*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***12*** | ***MINOR OT*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** |  |  | ***6500*** | ***YES*** |  |
| ***13*** | ***MINOR OT*** | ***FOOT OPERATED SUCTION MACHINE*** | ***1*** | ***\**** | ***\**** | ***#*** | ***4500*** | ***YES*** |  |
| ***14*** | ***MINOR OT*** | ***BOILER*** | ***4*** | ***\**** | ***\**** | ***#*** | ***18000*** |  | ***YES*** |
| ***15*** | ***MINOR OT*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***YORCO*** | ***#*** | ***#*** | ***10000*** |  | ***YES*** |
| ***16*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***17*** | ***MINOR OT*** | ***NEEDLE DESTROYER*** | ***1*** | ***OSPI+TIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***18*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTOTHERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***19*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***#*** | ***#*** | ***6500*** |  | ***YES*** |
| ***20*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***2*** |  | ***#*** | ***#*** | ***28000*** | ***YES*** |  |
| ***21*** | ***LABOUR ROOM*** | ***NEBULIZER*** | ***1*** | ***MICELFLUSING*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **21** |
| **No. of staff** | **19** | **Total equipment cost** | **575900** |
|  | | **Total AMC/CMC value** | **40313** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **SORENG PHC,WEST SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S***  ***.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***2011*** | ***25000*** |  | ***YES*** |
| ***2*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***2011*** | ***10000*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***C-852*** | ***2011*** | ***6500*** |  | ***YES*** |
| ***4*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***MAGNUS*** | ***MNS*** | ***#*** | ***15500*** |  | ***YES*** |
| ***5*** | ***LAB*** | ***MI8CROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20IBIMF*** | ***2011*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***LABONED*** | ***VISION 2000*** | ***2011*** | ***15500*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5 PLUS*** | ***2011*** | ***125000*** |  | ***YES*** |
| ***8*** | ***LAB*** | ***DIGITAL COLLIMETER*** | ***1*** | ***SYSTRONICS*** | ***DIGITAL COLLIMETER112*** | ***2011*** | ***3500*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***2011*** | ***25000*** | ***YES*** |  |
| ***10*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***MLW*** | ***#*** | ***2011*** | ***15500*** |  | ***YES*** |
| ***11*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTO-***  ***THERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***12*** | ***LABOUR ROOM*** | ***FOOT OPERATED SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***#*** | ***#*** | ***2500*** |  | ***YES*** |
| ***13*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***14000*** | ***YES*** |  |
| ***14*** | ***LABOUR ROOM*** | ***O.T LIGHT*** | ***1*** | ***#*** | ***#*** | ***#*** | ***70000*** |  | ***YES*** |
| ***15*** | ***DRESSING ROOM*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***10000*** | ***YES*** |  |
| ***16*** | ***DRESSING ROOM*** | ***NEEDLE DESTROYER*** | ***1*** |  | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***17*** | ***DENTAL ROOM*** | ***DENTAL CHAIR*** | ***1*** | ***CONFIDENT*** | ***#*** | ***#*** | ***150000*** |  | ***YES*** |
| ***18*** | ***DENTAL ROOM*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***19*** | ***X RAY ROOM*** | ***X RAY MACHINE 50ma*** | ***1*** | ***SIEMENS*** | ***5305*** | ***#*** | ***450000*** | ***YES*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **19** |
| **No. of staff** | **24** | **Total equipment cost** | **1097200** |
|  | | **Total AMC/CMC value** | **76804** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.NO** | **Name of institution** | **No. of sanctioned beds** | **Type of hospital** | **Total equipment** | **Total cost of equipments** | **No. of working Equipments** | **No. of not working Equipments** | **% of not working equipments** | **AMC / CMC charges@7% of Asset values** |
| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8** | **GEYZING**  **YUKSOM**  **SENEK**  **DENTAM**  **RINCHINGPONG**  **MANGALBAREY**  **SOMBARIA**  **SORENG** | **100**  **10**  **10**  **10**  **10**  **10**  **10**  **10** | **DH**  **PHC**  **PHC**  **PHC**  **PHC**  **PHC**  **PHC**  **PHC** | **108**  **21**  **24**  **26**  **21**  **24**  **21**  **19** | **9409000**  **398900**  **467900**  **893100**  **486200**  **816900**  **575900**  **1097200** | **78**  **20**  **15**  **18**  **12**  **16**  **16**  **11** | **30**  **1**  **9**  **8**  **9**  **8**  **5**  **8** | **27.777**  **4.76**  **37.5**  **30.77**  **42.85**  **33.33**  **23.8**  **42.1** | **658630**  **27923**  **32753**  **52283**  **34034**  **57183**  **40313**  **76804** |

**DETAILED STUDY OF MEDICAL EQUIPMENT IN WEST DISTRICT OF SIKKIM**

Percentage of Disfunctioning equipment 4.76 % to 42.85 %

**Summary of Biomedical Equipment Inventory Survey in west District (Sikkim)**

**Name of facility with Highest Dysfunctional Rate : P. H.C RINCHINGPONG**

Highest Dysfunctional Rate : **42.85 %**

**Name of facility with Lowest Dysfunctional Rate : P.H.C YUKSOM**

Lowest Dysfunctional Rate : **4.76 %**

Average Dysfunctional Rate : **28.58%**

**Average CMC Cost @ 7% of the cost of Equipment**

Total No. of Equipment :  **264**

CMC Cost for the whole District:  **Rs. 1078357**

**DETAILED STUDY OF MEDICAL EQUIPMENT IN NAMCHI DISTRICT**

**(SOUTH SIKKIM, SIKKIM)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl No. | Name of the Institution | Beds | TYPE OF HOSPITAL | Total Equipt | Total Cost of Equipt. ` | No. of Working Equipment | No. of NOT Working Equipment | % of D'fuct equipt |
| 1 | NAMCHI,DISTRICT HOSPITAL | 100 | DISTRICT HOSPITAL | 145 | 18182400 | 113 | 32 | 22.06% |
| 2 | YANGANG PHC | 10 | PHC | 28 | 463400 | 19 | 9 | 32.14% |
| 3 | RAVANGLA | 10 | PHC | 27 | 1444000 | 14 | 16 | 59.25% |
| 4 | TEMI | 10 | PHC | 30 | 810200 | 20 | 10 | 33.33% |
| 5 | BERMIOK | 10 | PHC | 25 | 616000 | 27 | 8 | 32% |
| 6 | NAMTHANG | 10 | PHC | 28 | 477400 | 21 | 7 | 25% |
| 7 | JORETHANG | 10 | CHC | 22 | 1475400 | 21 | 6 | 27.27% |
| 8 | MELLI | 10 | PHC | 25 | 994400 | 21 | 4 | 16% |

|  |
| --- |
| **Contact Details of Officers in South District ( Namchi )** |
| **NAME MOBILE No.** |
| **District hospital** |
| STORE KEEPER :- Mr. S.K. RAI 9832440452 |
| **JORTHANG (C.H.C)** |
| M.O Dr. SONAMIT LEPCHA 9434408202 |
| B.P.M BIMLA PRADHAN 9734133082 |
| **BERMOK** |
| M.O Dr. KARAN CHODEN 7872887987 |
| B.P.M RIWANG 9735820329 |
| **MELLI** |
| M.O PATRIKA RAI 9002557899 |
| STORE KEEPER PUSHPA KHATI 9832689465 |
| **NAMTHANG** |
| M.O Dr. BINITA PARIHAR 8016753241 |
| B.P.M PRANAY TAMANG 9734945805 |
| **RAVANGLA** |
| M.O ADEN BHUTIA 9434485048 |
| STORE KEEPER PUNAM RAI 9593985341 |
| **TEMI** |
| M.O AMBIKA RAI 9474773281 |
| STORE INCHARGE ANITA POUDYAL 9734125843 |
| **YANGANG** |
| M.O Dr. MILAN PRADHAN 973332710 |
| STORE INCHARGE Mrs. HEMA DAHAL 9778833818 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
| **MASTER EQUIPMENT BASE**  **Namchi District Hospital, South Sikkim , Sikkim** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***MINOR O.T*** | ***O.T LIGHT*** | ***1*** | ***PHILILUX MAJOR*** | ***#*** | ***#*** | ***70000*** |  | ***Yes*** |
| ***2*** | ***MINOR O.T*** | ***STIRLIZER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***yes*** |  |
| ***3*** | ***EYE O.T*** | ***STIRLIZER*** | ***1*** | ***STURDY*** | ***SA-232X-F-A100*** | ***#*** | ***4500*** |  | ***Yes*** |
| ***4*** | ***EYE O.T*** | ***MICROSCOPE*** | ***1*** | ***HS Moller Wedel International*** | ***#*** | ***#*** | **1500000** | **yes** |  |
| ***5*** | ***EYE O.T*** | ***O.T LIGHT*** | ***1*** | ***ALM*** | ***ID 189800*** | ***#*** | ***70000*** |  | ***Yes*** |
| ***6*** | ***SURGICAL O.T*** | ***ANAESTHESIA MACHINE*** | ***1*** | ***DRAGER*** | ***Fabius Plus*** | ***#*** | ***500000*** | ***YES*** |  |
| ***7*** | ***SURGICAL O.T*** | ***PATIENT MONITOR*** | ***1*** | ***WelchAllyn*** | ***/0050*** | ***#*** | ***85000*** |  | ***Yes*** |
| ***8*** | ***SURGICAL O.T*** | ***O.T LIGHT*** | ***1*** | ***ALM*** | ***6208*** | ***#*** | ***70000*** | ***YES*** |  |
| ***9*** | ***SURGICAL O.T*** | ***SUCTION MACHINE*** | ***1*** | ***MASTER CARE*** | ***#*** | ***7/7/2014*** | ***6500*** | ***YES*** |  |
| ***10*** | ***SURGICAL O.T*** | ***ELECTRIC CAUTERY*** | ***1*** | ***DINESH*** | ***225/595-0*** | ***#*** | ***55000*** | ***YES*** |  |
| ***11*** | ***SURGICAL O.T*** | ***SYRINGE PUMP*** | ***1*** | ***BPL*** | ***Acura-S*** | ***#*** | ***52000*** | ***YES*** |  |
| ***12*** | ***SURGICAL O.T*** | ***INFUSION PUMP*** | ***1*** | ***BPL*** | ***Acura-V*** | ***#*** | ***52000*** | ***YES*** |  |
| ***13*** | ***GYNO O.T*** | ***AUTOCLAVE*** | ***1*** | ***STeRI*** | ***2393459*** | ***#*** | ***4500*** | ***YES*** |  |
| ***14*** | ***GYNO O.T*** | ***AUTOCLAVE*** | ***1*** | ***Indfos*** | ***110*** | ***#*** | ***4500*** |  | ***YES*** |
| ***15*** | ***GYNO O.T*** | ***AUTOCLAVE*** | ***1*** | ***Indfos*** | ***110*** | ***#*** | ***4500*** |  | ***YES*** |
| ***16*** | ***GYNO O.T*** | ***Anaesthesia Machine*** | ***1*** | ***HOSPITECH*** | ***M.N Major plus*** | ***V*** | ***450000*** | ***YES*** |  |
| ***17*** | ***GYNO O.T*** | ***PATIENT MONITOR*** | ***1*** | ***BPL*** | ***M.N Excello-Eco*** | ***6/2/2014*** | ***85000*** | ***YES*** |  |
| ***18*** | ***GYNO O.T*** | ***PATIENT MONITOR*** | ***1*** | ***BPL*** | ***M.N Multi parameter*** | ***5/6/2014*** | ***85000*** | ***YES*** |  |
| ***19*** | ***GYNO O.T*** | ***PULSE OXIMETER*** | ***1*** | ***BPL*** | ***M.No-Cleo*** | ***2/12/2013*** | ***55000*** | ***YES*** |  |
| ***20*** | ***GYNO O.T*** | ***SUCTION MACHINE*** | ***1*** | ***Surgi-VAC*** | ***8122559*** | ***2011*** | ***6500*** | ***YES*** |  |
| ***21*** | ***GYNO O.T*** | ***SUCTION MACHINE*** | ***1*** | ***Surgi-VAC*** | ***8122559*** | ***#*** | ***6500*** | ***YES*** |  |
| ***22*** | ***GYNO O.T*** | ***Radient Warmer*** | ***1*** | ***MEDITRIN*** | ***#*** | ***31/08/2013*** | ***38000*** | ***YES*** |  |
| ***23*** | ***GYNO O.T*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIX*** | ***#*** | ***2013*** | ***6500*** | ***YES*** |  |
| ***24*** | ***GYNO O.T*** | ***O.T LIGHT*** | ***1*** | ***ALM*** | ***ID 189800*** | ***6/3/1999*** | ***70000*** |  | ***YES*** |
| ***25*** | ***GYNE-MINOR O.T*** | ***SUCTION MACHINE*** | ***1*** | ***MEDI WAVES INC*** | ***#*** | ***2013*** | ***6500*** | ***YES*** |  |
| ***26*** | ***GYNE-MINOR O.T*** | ***O.T LIGHT*** | ***1*** | ***ALM*** | ***ID 189800*** | ***6/3/1999*** | ***70000*** |  | ***YES*** |
| ***27*** | ***GYNE-MINOR O.T*** | ***ANAESTHESIA MACHINE*** | ***1*** | ***AZEX*** | ***#*** | ***4/7/2009*** | ***400000*** |  | ***YES*** |
| ***28*** | ***GYNE-MINOR O.T*** | ***PATIENT MONITOR*** | ***1*** | ***KONTRON*** | ***#*** | ***6/3/1999*** | ***85000*** |  | ***YES*** |
| ***29*** | ***GYNE-MINOR O.T*** | ***ANAESTHESIA MACHINE*** | ***1*** | ***AZEX*** | ***#*** | ***4/7/2009*** | ***400000*** |  | ***YES*** |
| ***30*** | ***GYNE-MINOR O.T*** | ***ANAESTHESIA MACHINE*** | ***1*** | ***BOYLEMARK KOLKATA*** | ***#*** | ***21/7/2009*** | ***450000*** |  | ***YES*** |
| ***31*** | ***GYNE-MINOR O.T*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***OCS 500*** | ***#*** | ***375000*** | ***YES*** |  |
| ***32*** | ***GYNE-MINOR O.T*** | ***WATER BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***33*** | ***DENTISTRY*** | ***DENTAL CHAIR*** | ***1*** | ***#*** | ***SKY 200*** | ***1995*** | ***50000*** |  | ***YES*** |
| ***34*** | ***DENTISTRY*** | ***DENTAL CHAIR*** | ***1*** | ***PACIFIC*** | ***#*** | ***1997*** | ***150000*** |  | ***YES*** |
| ***(1)***  ***35*** | ***(2)***  ***DENTISTRY*** | ***(3)***  ***VERTICAL***  ***AUTOCLAVE*** | ***(4)***  ***1*** | ***(5)***  ***MELAG*** | ***(6)***  ***#*** | ***(7)***  ***#*** | ***(8)***  ***10000*** | ***(9)*** | ***(10)***  ***YES*** |
| ***36*** | ***DENTISTRY*** | ***STIRLIZER*** | ***1*** | ***AGENCINOX*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***37*** | ***DENTISTRY*** | ***NEEDLE DESTROYER*** | ***1*** | ***HOSPI time*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***38*** | ***BLOOD BANK*** | ***DRY INCUBATOR*** | ***1*** | ***Diagnos*** | ***INC-12*** | ***10/4/2010*** | ***8500*** | ***YES*** |  |
| ***39*** | ***BLOOD BANK*** | ***Mini Rotory shaker*** | ***1*** | ***REMI*** | ***RS-12*** | ***NOT INSTALLED*** | ***6500*** |  | ***YES*** |
| ***40*** | ***BLOOD BANK*** | ***Tube Sealer*** | ***1*** | ***INSIGNIA*** | ***BT-200Y*** | ***8/5/2008*** | ***65000*** | ***YES*** |  |
| ***41*** | ***BLOOD BANK*** | ***DONOR Coach*** | ***1*** | ***Hindustan Latex*** | ***HYCARE*** | ***10/4/2010*** | ***75000*** | ***YES*** |  |
| ***42*** | ***BLOOD BANK*** | ***Blood Collection Monitor*** | ***1*** | ***ASILAB*** | ***ASCM-10*** | ***1/11/2011*** | ***65000*** | ***YES*** |  |
| ***43*** | ***BLOOD BANK*** | ***Blood Collection Monitor*** | ***1*** | ***INSIGNIA*** | ***BM35X*** | ***8/5/2008*** | ***65000*** | ***YES*** |  |
| ***44*** | ***BLOOD BANK*** | ***NEEDLE DESTROYER*** | ***1*** | ***YORK SCIENTIFIC*** | ***#*** | ***16/9/2004*** | ***1200*** | ***YES*** |  |
| ***45*** | ***BLOOD BANK*** | ***Refrigerator*** | ***1*** | ***ELECTROLUX*** | ***ML-150*** | ***18/7/2000*** | ***18000*** | ***YES*** |  |
| ***46*** | ***BLOOD BANK*** | ***Laminar flow*** | ***1*** | ***Cytogards*** | ***9S*** | ***NOT INSTALLED*** | ***250000*** |  | ***YES*** |
| ***47*** | ***BLOOD BANK*** | ***Blood storage cabinet*** | ***1*** | ***REMI*** | ***BR120*** | ***5/12/2003*** | ***250000*** | ***YES*** |  |
| ***48*** | ***BLOOD BANK*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***YORKO*** | ***#*** | ***29/2/1996*** | ***10000*** | ***YES*** |  |
| ***49*** | ***BLOOD BANK*** | ***OVEN*** | ***1*** | ***JAUAN*** | ***EV 115*** | ***6/3/1999*** | ***25000*** | ***YES*** |  |
| ***50*** | ***BLOOD BANK*** | ***WATER BATH*** | ***1*** | ***JAUAN*** | ***J 18*** | ***1/10/1996*** | ***25000*** | ***YES*** |  |
| ***51*** | ***BLOOD BANK*** | ***CENTRIFUGE*** | ***1*** | ***JAUAN*** | ***C 312*** | ***6/3/1999*** | ***6500*** | ***YES*** |  |
| ***52*** | ***BLOOD BANK*** | ***DRY INCUBATOR*** | ***1*** | ***Digilab Diagnosis*** | ***NC-12*** | ***10/4/2010*** | ***8500*** | ***YES*** |  |
| ***53*** | ***BLOOD BANK*** | ***MICROSCOPE*** | ***1*** | ***Biox-200*** | ***#*** | ***6/3/1998*** | ***30000*** | ***YES*** |  |
| ***54*** | ***BLOOD BANK*** | ***ELISA Reader with Washer*** | ***1*** | ***Lab System*** | ***352*** | ***15/5/2001*** | ***250000*** | ***YES*** |  |
| ***55*** | ***TRAUMA*** | ***PATIENT MONITOR*** | ***1*** | ***WelchAllyn*** | ***6200 Series*** | ***#*** | ***85000*** | ***YES*** |  |
| ***56*** | ***TRAUMA*** | ***DEFIBRILLATOR*** | ***1*** | ***BRUKER*** | ***DEFIBGARD3002-IH-WOR*** | ***#*** | ***170000*** | ***YES*** |  |
| ***57*** | ***TRAUMA*** | ***SUCTION MACHINE*** | ***1*** | ***Surgi-VAC*** |  | ***#*** | ***6500*** | ***YES*** |  |
| ***58*** | ***STIRLIZATION ROOM*** | ***VERTICAL***  ***AUTOCLAVE*** | ***1*** | ***YORCO*** | ***YSA402*** | ***#*** | ***10000*** | ***YES*** |  |
| ***59*** | ***STIRLIZATION ROOM*** | ***VETICAL***  ***AUTOCLAVE*** | ***1*** | ***YORCO*** | ***YSA402*** | ***#*** | ***55000*** | ***YES*** |  |
| ***60*** | ***CCU*** | ***VENTILATOR*** | ***1*** | ***DRAGER*** | ***Carina*** | ***#*** | ***350000*** | ***YES*** |  |
| ***61*** | ***CCU*** | ***E.C.G*** | ***1*** | ***BPL*** | ***CARDIART-6208*** | ***#*** | ***52000*** | ***YES*** |  |
| ***62*** | ***CCU*** | ***Nebulizer*** | ***1*** | ***NIDEK Medical*** | ***6235CE*** | ***#*** | ***4500*** | ***YES*** |  |
| ***63*** | ***CCU*** | ***E.C.G*** | ***1*** | ***BPL*** | ***CARDIART-6108T*** | ***#*** | ***52000*** | ***YES*** |  |
| ***64*** | ***CCU*** | ***PULSE OXIMETER*** | ***1*** | ***BPL*** | ***PO5835*** | ***#*** | ***55000*** | ***YES*** |  |
| ***65*** | ***CCU*** | ***SYRINGE PUMP*** | ***1*** | ***BPL*** | ***Acura-S*** | ***#*** | ***40000*** | ***YES*** |  |
| ***66*** | ***CCU*** | ***PULSE OXIMETER*** | ***1*** | ***BPL*** | ***AD004*** | ***#*** | ***55000*** | ***YES*** |  |
| ***67*** | ***CCU*** | ***PULSE OXIMETER*** | ***1*** | ***BPL*** | ***AD004*** | ***#*** | ***55000*** | ***YES*** |  |
| ***68*** | ***CCU*** | ***BED*** | ***1*** | ***Ti-motion*** | ***TCI-T4NA*** | ***#*** | ***35000*** | ***YES*** |  |
| ***69*** | ***CCU*** | ***BED*** | ***1*** | ***Ti-motion*** | ***TCI-T4NA*** | ***#*** | ***35000*** | ***YES*** |  |
| ***70*** | ***CCU*** | ***BED*** | ***1*** | ***Ti-motion*** | ***TCI-T4NA*** | ***#*** | ***35000*** | ***YES*** |  |
| ***71*** | ***CCU*** | ***BED*** | ***1*** | ***Ti-motion*** | ***TCI-T4NA*** | ***#*** | ***35000*** | ***YES*** |  |
| ***72*** | ***SCCU*** | ***INFUSION PUMP*** | ***1*** | ***BPL*** | ***Acura-V*** | ***#*** | ***40000*** | ***YES*** |  |
| ***73*** | ***CCU*** | ***DEFIBRILLATOR*** | ***1*** | ***BPL*** | ***DF 2509*** | ***#*** | ***170000*** | ***YES*** | ***(10)*** |
| ***74*** | ***CCU*** | ***Nebulizer*** | ***1*** | ***NIDEK Medical*** | ***6235CE*** | ***#*** | ***4500*** | ***YES*** |  |
| ***75*** | ***MINOR O.T*** | ***GYNO-TABLE*** | ***1*** |  |  | ***#*** | ***14000*** |  |  |
| ***78*** | ***MINOR O.T*** | ***O.T LIGHT*** | ***1*** | ***PHILLIPS*** | ***PHILLILUX*** | ***14/7/2009*** | ***70000*** |  | ***YES*** |
| ***79*** | ***MINOR O.T*** | ***NEEDLE DESTROYER*** | ***1*** | ***#*** |  | ***#*** | ***1200*** | ***YES*** |  |
| ***80*** | ***MINOR O.T*** | ***O.T TABLE*** | ***1*** | ***COGNATE*** | ***SS-251*** | ***#*** | ***70000*** |  |  |
| ***81*** | ***MINOR O.T*** | ***O.T LIGHT*** | ***1*** | ***COGNATE*** |  | ***#*** | ***70000*** |  |  |
| ***82*** | ***PHYSIO-THEREPY*** | ***INFRARED LAMP*** | ***1*** | ***International Electro Medical co.*** |  | ***#*** | ***6500*** | ***YES*** |  |
| ***83*** | ***PHYSIO-THEREPY*** | ***ULTRASONIC MACHINE*** | ***1*** | ***MEDICHEM Electronics*** | ***MEDISON-05*** | ***#*** | ***350000*** | ***YES*** |  |
| ***84*** | ***PHYSIO-THEREPY*** | ***DIATHERMY*** | ***1*** | ***EM MEDICAL eLECTRONICS*** | ***IEMP-3021*** | ***#*** | ***350000*** | ***YES*** |  |
| ***85*** | ***PHYSIO-THEREPY*** | ***TENS*** | ***1*** | ***PHYSIOIEMCO*** | ***IEMP-3034C*** | ***#*** | ***650000*** | ***YES*** |  |
| ***86*** | ***PHYSIO-THEREPY*** | ***MUSCLE STIMULATER+CC91:C92*** | ***1*** | ***PHYSIOIEMCO*** | ***PHYSIOSTIMDT*** | ***#*** | ***4500*** |  | ***YES*** |
| ***87*** | ***PHYSIO-THEREPY*** | ***ELECTRO TRACTION*** | ***1*** | ***MEDILAP ELECTROTRACTION*** | ***CLT-04*** | ***#*** | ***350000*** | ***YES*** |  |
| ***88*** | ***PHYSIO-THEREPY*** | ***PHYSIO WAY BATH*** | ***1*** | ***ELECTROMEDICAL CORPERATION*** | ***IEMP3046*** | ***#*** | ***15000*** |  | ***YES*** |
| ***89*** | ***PHYSIO-THEREPY*** | ***PARAFIN WAY BATH*** | ***1*** | ***#*** | ***#*** | ***#*** | ***15000*** |  | ***YES*** |
| ***90*** | ***HAEMATHOLOGY*** | ***HAEMATHOLOGY MACHINE*** | ***1*** | ***SYSMEX*** | ***KX-21*** | ***#*** | ***150000*** | ***YES*** |  |
| ***91*** | ***HAEMATHOLOGY*** | ***THYROID MACHINE*** | ***1*** | ***ERBA*** | ***ERBA-LISA WASH*** | ***#*** | ***150000*** | ***YES*** |  |
| ***92*** | ***HAEMATHOLOGY*** | ***THYROID /DANGUE TEST*** | ***1*** | ***ERBA*** | ***LISA SCAN EM*** | ***#*** | ***150000*** | ***YES*** |  |
| ***93*** | ***HAEMATHOLOGY*** | ***CENTRIFUGE*** | ***1*** | ***REMI*** | ***R-8C*** | ***#*** | ***6500*** |  | ***YES*** |
| ***94*** | ***HAEMATHOLOGY*** | ***HOT OVEN*** | ***1*** | ***Jouan*** | ***EU170*** | ***#*** | ***25000*** | ***YES*** |  |
| ***95*** | ***X-RAY ROOM*** | ***X RAY MACHINE 100ma*** | ***1*** | ***#*** | ***ME-1010*** | ***14-Jul-09*** | ***450000*** | ***YES*** |  |
| ***96*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***SW/47*** | ***#*** | ***38000*** | ***YES*** |  |
| ***97*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***98*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***99*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***100*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***101*** | ***NICU/SNCU*** | ***OPEN CARE WARMER/PHOTOTHEAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***102*** | ***NICU/SNCU*** | ***VOLUMETRIC INFUSION PUMP*** | ***1*** | ***AKAS*** | ***#*** | ***9/4/2012*** | ***40000*** | ***YES*** |  |
| ***103*** | ***NICU/SNCU*** | ***SYRINGE PUMP*** | ***1*** | ***ATOM*** | ***1235N*** | ***2/4/2008*** | ***40000*** | ***YES*** |  |
| ***104*** | ***NICU/SNCU*** | ***SYRINGE PUMP*** | ***1*** | ***JMS*** | ***SP-500*** | ***24/2/2012*** | ***40000*** | ***YES*** |  |
| ***105*** | ***NICU/SNCU*** | ***PULSE OXYMETER*** | ***1*** | ***BPL(CLEO)*** | ***PO5835*** | ***14/7/2009*** | ***55000*** |  | ***YES*** |
| ***106*** | ***NICU/SNCU*** | ***PULSE OXYMETER*** | ***1*** | ***BPL(CLEO)*** | ***PO5835*** | ***17/12/2011*** | ***55000*** | ***YES*** |  |
| ***107*** | ***NICU/SNCU*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***#*** | ***17/5/2008*** | ***6500*** | ***YES*** |  |
| ***108*** | ***NICU/SNCU*** | ***OXYGEN CONCENTRATION*** | ***1*** | ***EVERFLOW*** | ***OPI*** | ***#*** | ***45000*** |  |  |
| ***109*** | ***NICU/SNCU*** | ***OXYGEN CONCENTRATION*** | ***1*** | ***EVERFLOW*** | ***OPI*** | ***#*** | ***45000*** |  | ***(10)*** |
| ***110*** | ***NICU/SNCU*** | ***NEBULIZER*** | ***1*** | ***NIDEK*** | ***4235CE*** | ***2014*** | ***4500*** | ***YES*** |  |
| ***111*** | ***NICU/SNCU*** | ***NEBULIZER*** | ***1*** | ***NIDEK*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***112*** | ***NICU/SNCU*** | ***SUCTION MACHINE*** | ***1*** | ***#*** | ***#*** | ***25/11/2008*** | ***6500*** |  | ***YES*** |
| ***113*** | ***OPTHAMOLOGY*** | ***AUTOREFRACTRO METER*** | ***1*** | ***UNICOS*** | ***URK700*** | ***#*** | ***450000*** |  | ***YES*** |
| ***114*** | ***OPTHAMOLOGY*** | ***SLIT LAMP*** | ***1*** | ***HS*** | ***BM900*** | ***#*** | ***110000*** |  | ***YES*** |
| ***115*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***BIOCHEMISTRY ANALYZER*** | ***1*** | ***ERBA*** | ***EM 200*** | ***#*** | ***200000*** | ***YES*** |  |
| ***116*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***ROTATOR*** | ***1*** | ***FIRLABO*** | ***AGITATEUR*** | ***1999*** | ***65000*** | ***YES*** |  |
| ***117*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***REAGENT MIXTURE*** | ***1*** | ***J.P SELECTA*** | ***ASINCRO*** | ***#*** | ***200000*** | ***YES*** |  |
| ***118*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***SERUM ELECTROLYTE*** | ***1*** | ***MEDICA Easy lite*** | ***EASY LITE PLUS*** | ***#*** | ***200000*** | ***YES*** |  |
| ***119*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***ERBA*** | ***CHEM 5 PLUS*** | ***#*** | ***125000*** | ***YES*** |  |
| ***120*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***SEMI AUTO ANALYZER*** | ***1*** | ***ERBA*** | ***CHEM 5 PLUS*** | ***#*** | ***125000*** |  | ***YES*** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***121*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** | ***(10)*** |
| ***122*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***CENTRIFUGE*** | ***1*** | ***REMI*** | ***R8C*** | ***#*** | ***6500*** | ***YES*** |  |
| ***123*** | ***PATHOLOGY/BIOCHEMISTRY*** | ***REFRIDGERATOR*** | ***1*** | ***FACIS*** | ***CU5500*** | ***#*** | ***25000*** |  | ***YES*** |
| ***124*** | ***ECG ROOM*** | ***ECG MACHINE*** | ***1*** | ***BPL*** | ***CARDIART 6108T*** | ***19/9/2012*** | ***52000*** | ***YES*** |  |
| ***125*** | ***ECG ROOM*** | ***ECG MACHINE*** | ***1*** | ***BPL*** | ***CARDIART 6108T*** | ***2010*** | ***52000*** | ***YES*** |  |
| ***126*** | ***ULTRASOUND ROOM*** | ***ULTRASOUND MACHINE*** | ***1*** | ***ADARA SONOLINE*** | ***GM6703A2E00*** | ***May-06*** | ***350000*** | ***YES*** | ***(10)*** |
| ***127*** | ***COLLECTION ROOM*** | ***HOT AIR OVEN*** | ***1*** | ***MEMMERT*** | ***#*** | ***#*** | ***25000*** |  | ***YES*** |
| ***128*** | ***COLLECTION ROOM*** | ***HOT AIR OVEN*** | ***1*** | ***JOUAM*** | ***#*** | ***#*** | ***25000*** | ***YES*** |  |
| ***129*** | ***COLLECTION ROOM*** | ***SYRINGE /NEEDLE DISTROYER*** | ***1*** | ***HOSPITIME*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***130*** | ***COLLECTION ROOM*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20i*** | ***#*** | ***15500*** | ***YES*** |  |
| ***131*** | ***T.B CENTRE*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI-VAC*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***132*** | ***T.B CENTRE*** | ***NEEDLE DISTROYER*** | ***1*** | ***HOSPI TIME*** | ***#*** | ***#*** | ***1200*** |  | ***YES*** |
| ***133*** | ***TB CENTRE(LABORATORY)*** | ***MICROSCOPE*** | ***1*** | ***LABOMED*** | ***Mode VISION2000*** | ***#*** | ***15500*** | ***YES*** |  |
| ***134*** | ***TB CENTRE(LABORATORY)*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20i*** | ***#*** | ***15500*** | ***YES*** |  |
| ***135*** | ***TB CENTRE(LABORATORY)*** | ***MICROSCOPE*** | ***1*** | ***LAMBOMED*** | ***Model VISION 2000*** | ***#*** | ***15500*** | ***YES*** |  |
| ***(1)***  ***136*** | ***(2)***  ***TB CENTRE(LABORATORY)*** | ***(3)***  ***SYRINGE NEEDLE DISTROYER*** | ***(4)***  ***1*** | ***(5)***  ***HOSPITIME*** | ***(6)***  ***#*** | ***(7)***  ***#*** | ***(8)***  ***1200*** | ***(9)***  ***YES*** | ***(10)*** |
| ***137*** | ***TB CENTRE(STORE)*** | ***DE Humidifier*** | ***1*** | ***ALDF 120*** | ***#*** | ***#*** | ***5000*** | ***YES*** |  |
| ***138*** | ***TB CENTRE(DOTS ROOM)*** | ***NEEDLE DISTROYER*** | ***1*** | ***YORK SCIENTIFIC Ind.*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***139*** | ***TB CENTRE(M.D.R)*** | ***SIMPLE FRIDGE*** | ***1*** | ***SAMSUNG*** | ***857*** | ***#*** | ***10000*** | ***YES*** |  |
| ***140*** | ***TB CENTRE(M.D.R)*** | ***SIMPLE FRIDGE (OLD)*** | ***1*** | ***BPL*** | ***#*** | ***#*** | ***5000*** | ***YES*** |  |
| ***141*** | ***MORTUARY*** | ***REFRIGERATOR(FOR DEAD BODY)*** | ***1*** | ***HYGECO*** | ***MSB120TO024*** | ***Apr-98*** | ***800000*** | ***YES*** |  |
| ***142*** | ***MORTUARY*** | ***REFRIGERATOR(FOR DEAD BODY)*** | ***1*** | ***HYGECO*** | ***MSB120TO024*** | ***Apr-98*** | ***800000*** | ***YES*** |  |
| ***143*** | ***WASTE ROOM*** | ***INCRINERATOR*** | ***1*** | ***MULLER(20KG)*** | ***#*** | ***Apr-98*** | ***2000000*** | ***YES*** |  |
| ***144*** | ***IT*** | ***Computer*** | ***15*** | ***Hp*** | ***#*** | ***#*** | ***600000*** | ***13*** | ***2*** |
| ***145*** | ***IT*** | ***Computer*** | ***2*** | ***Acer*** | ***#*** | ***#*** | ***70000*** | ***1*** | ***1*** |
| ***146*** | ***IT*** | ***Computer*** | ***4*** | ***Dell*** | ***#*** | ***#*** | ***160000*** |  |  |
| ***147*** | ***IT*** | ***Computer*** | ***1*** | ***Lenovo*** | ***#*** | ***#*** | ***40000*** |  |  |
| ***148*** | ***IT*** | ***Computer*** | ***2*** | ***compaq*** | ***#*** | ***#*** | ***90000*** |  |  |
| 149 | ***IT*** | ***Computer*** | ***1*** | ***Zenieth*** | ***#*** | ***#*** | 35000 |  |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **100** | **Total No. of equipment** | **145** |
| **No. of staff** | **137** | **Total equipment cost** | **17947400** |
|  | | **Total AMC/CMC value** | **1256318** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **Jorthang CHC ,South sikkim,Sikkim** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***#*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***R8L*** | ***#*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***SHAKER*** | ***1*** | ***V.D.RL SHAKER*** | ***SSACS*** | ***1/1/2013*** | ***65000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***NEEDLE DESTROYER*** | ***1*** | ***MEDIGOLD*** | ***SSACS*** | ***1/1/2013*** | ***1200*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***#*** | ***#*** | ***10000*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***\**** | ***#*** | ***10000*** |  | ***YES*** |
| ***8*** | ***LAB*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***NEO*** | ***#*** | ***10000*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***STIRLIZER*** | ***1*** | ***INDFOS*** | ***LIFEX*** | ***#*** | ***3000*** |  | ***YES*** |
| ***10*** | ***LAB*** | ***SHREDDER*** | ***1*** | ***YORCO*** | ***YSD 612*** | ***#*** | ***350000*** |  | ***YES*** |
| ***11*** | ***X-RAY ROOM*** | ***X-RAY(60mA)*** | ***1*** | ***M.E X RAY Pvt. Ltd.*** | ***ME 0610*** | ***#*** | ***450000*** | ***YES*** |  |
| ***12*** | ***DENTAL ROOM*** | ***DENTAL CHAIR with compressor*** | ***1*** | ***CONFIDENT*** | ***C-49*** | ***#*** | ***150000*** |  | ***Yes*** |
| ***13*** | ***DENTAL ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MADE*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***14*** | ***DENTAL ROOM*** | ***NEEDLE DESTROYER*** | ***1*** | ***RAMTECH*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***DELIVERY TABLE*** | ***1*** |  | ***#*** | ***#*** | ***14000*** | ***YES*** |  |
| ***16*** | ***LABOUR ROOM*** | ***DELIVERY TABLE*** | ***1*** |  | ***#*** | ***#*** | ***14000*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** | ***LIFE XHOSPITALWARES*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***18*** | ***LABOUR ROOM*** | ***BABY WARMER*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***19*** | ***LABOUR ROOM*** | ***BABY WARMER*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** |  | ***YES*** |
| ***20*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI-VAC*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***21*** | ***O.T ROOM*** | ***O.T TABLE*** | ***1*** | ***COGNATE*** | ***\**** | ***#*** | ***70000*** |  | ***YES*** |
| ***22*** | ***IT*** | ***Computer*** | ***2*** | ***HP/Dell*** | **\*** | ***#*** | **80000** | **YES** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **30** | **Total No. of equipment** | **22** |
| **No. of staff** | **53** | **Total equipment cost** | **994400** |
|  | | **Total AMC/CMC value** | **103278** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **BERMOK PHC,SOUTH SIKKIM,SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***#*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C-852*** | ***#*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***#*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i BIMF*** | ***#*** | ***15500*** | ***YES*** |  |
| ***7*** | ***LAB*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***#*** | ***10000*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***AFCOSET ELECTRONIC PRECISION BALANCE*** | ***1*** | ***FRAGILE*** | ***FX4009*** | ***#*** | ***25000*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***NEEDLE DESTROYER*** | ***1*** | ***RAMTECH*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***10*** | ***EMERGENCY*** | ***NEEDLE DESTROYER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***11*** | ***LABOUR ROOM*** | ***Radient warmer with photo therepy*** | ***1*** | ***MEDITRIN*** | ***\**** | ***16/11/2011*** | ***38000*** | ***YES*** |  |
| ***12*** | ***LABOUR ROOM*** | ***Radient Warmer with Phototherepy*** | ***1*** | ***MEDITRIN*** | ***\**** | ***16/11/2011*** | ***38000*** | ***YES*** |  |
| ***13*** | ***LABOUR ROOM*** | ***OT LIGHT*** | ***1*** | ***\**** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***14*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** | ***\**** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***15*** | ***LABOUR ROOM*** | ***STIRILIZER*** | ***5*** | ***\**** | ***#*** | ***#*** | ***22500*** |  | ***YES*** |
| ***16*** | ***LABOUR ROOM*** | ***NEEDLE DESTROYER*** | ***3*** | ***\**** | ***#*** | ***#*** | ***3600*** |  |  |
| ***17*** | ***LABOUR ROOM*** | ***ELECTRONIC WEIGHING MACHINE*** | ***1*** | ***CROUS*** | ***#*** | ***18/4/2008*** | ***20000*** | ***YES*** |  |
| ***18*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (FOOT)*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***19*** | ***LABOUR ROOM*** | ***SUCTION MACHINE (ELECTRIC)*** | ***1*** | ***SURGI VAC*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***20*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***\**** | ***#*** | ***#*** | ***14000*** | ***YES*** |  |
| ***21*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***16/11/2011*** | ***70000*** | ***YES*** |  |
| ***22*** | ***MINOR OT*** | ***AUTOCLAVE*** | ***1*** | ***YORCO*** | ***LIFEX*** | ***16/11/2011*** | ***4500*** | ***YES*** |  |
| ***23*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***16/11/2011*** | ***70000*** | ***YES*** |  |
| ***24*** | ***MINOR OT*** | ***FRIDGE***  ***(NORMAL)*** | ***1*** | ***GODREJ*** | ***GCA1AH*** | ***#*** | ***10000*** | ***YES*** |  |
| ***25*** | ***IT*** | ***Computer*** | ***2*** | ***Hp/Acer*** |  | ***#*** | ***80000*** | ***yes*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **25** |
| **No. of staff** | **20** | **Total equipment cost** | **616000** |
|  | | **Total AMC/CMC value** | **43120** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **MELLI PHC ,South sikkim,Sikkim** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***3/8/2010*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C-852*** | ***3/8/2010*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***3/8/2010*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***3/8/2010*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20i*** | ***3/8/2010*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***DIGITAL COLORIMETER*** | ***1*** | ***SYSTRONICS*** | ***#*** | ***3/8/2010*** | ***3500*** | ***YES*** |  |
| ***7*** | ***AUTOCLAVE ROOM*** | ***AUTO CLAVE*** | ***1*** | ***INDFUS*** | ***#*** | ***#*** | ***10000*** |  | ***YES*** |
| ***8*** | ***IMMUNIZATION ROOM*** | ***NEEDLE CUTTER*** | ***1*** | ***HOSPI time*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***9*** | ***DENTAL ROOM*** | ***DENTAL CHAIR*** | ***1*** | ***Confident*** | ***#*** | ***#*** | ***150000*** |  | ***YES*** |
| ***10*** | ***DENTAL ROOM*** | ***COMPRESSOR*** | ***1*** | ***INDFOS*** | ***#*** | ***#*** | ***10000*** |  | ***YES*** |
| ***11*** | ***DENTAL ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MANUFACTURE*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***12*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI-VAC*** | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***13*** | ***LABOUR ROOM*** | ***PHOTOTHEREPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***16000*** | ***YES*** |  |
| ***14*** | ***LABOUR ROOM*** | ***PHOTOTHEREPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***16000*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***RADIENT WARMER*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***16*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MADE*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***#*** | ***70000*** |  | ***YES*** |
| ***18*** | ***LABOUR ROOM*** | ***SINGLE SMALL SPOTLIGHT*** | ***1*** |  | ***#*** | ***#*** | ***6500*** | ***YES*** |  |
| ***19*** | ***X-RAY ROOM*** | ***X-RAY(60 mA)*** | ***1*** | ***ME X RAY Ltd. Kolkata*** | ***ME 0610M*** | ***#*** | ***450000*** | ***YES*** |  |
| ***20*** | ***FEMALE WARD*** | ***HEATER*** | ***1*** | ***USHA*** | ***#*** | ***#*** | ***2000*** | ***YES*** |  |
| ***21*** | ***DRESSING ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MADE*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***22*** | ***DRESSING ROOM*** | ***NEBULIZER*** | ***1*** | ***LIFE-Line*** | ***Alpha*** | ***#*** | ***4500*** | ***YES*** |  |
| ***23*** | ***DRESSING ROOM*** | ***NEEDLE DESTROYER*** | ***1*** | ***HOSPI-Time*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***24*** | IT | Computer | 2 | HP/Dell | ***#*** | ***#*** | 90000 | yes |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **24** |
| **No. of staff** | **19** | **Total equipment cost** | **994400** |
|  | | **Total AMC/CMC value** | **69608** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **NAMTHANG PHC ,South sikkim,Sikkim** | | | | | | | | | |
| ***(1)***  ***S.***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***Semi AUTO Analyzer*** | ***1*** | ***Erba*** | ***CHEM-5 plus*** | ***8/9/2010*** | ***125000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***Centrifuge Machine*** | ***1*** | ***REMI*** | ***C-852*** | ***8/9/2010*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***Water Bath*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***8/9/2010*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***8/9/2010*** | ***25000*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH 20iBIMF*** | ***8/9/2010*** | ***15500*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***MAGNUS*** | ***MLX*** | ***8/9/2010*** | ***15500*** |  | ***YES*** |
| ***7*** | ***LAB*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN185B*** | ***8/9/2010*** | ***10000*** | ***YES*** |  |
| ***8*** | ***LAB*** | ***DIGITAL COLORIMETER*** | ***1*** | ***SYSTRONICS*** | ***#*** | ***8/9/2010*** | ***3500*** | ***YES*** |  |
| ***9*** | ***OPD*** | ***NEBULIZER*** | ***1*** | ***MICELFUSS*** | ***F400*** | ***2/26/2007*** | ***4500*** | ***YES*** |  |
| ***10*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI-VAC*** | ***#*** | ***7/26/2007*** | ***6500*** | ***YES*** |  |
| ***11*** | ***LABOUR ROOM*** | ***Radient Warmer with Phototherepy*** | ***1*** | ***MEDITRIN*** | ***NOT WRITTEN*** | ***2/26/2007*** | ***38000*** |  | ***YES*** |
| ***12*** | ***LABOUR ROOM*** | ***STIRLIZER*** | ***1*** | ***LIFE X*** | ***#*** | ***2/26/2007*** | ***4500*** | ***YES*** |  |
| ***13*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***1999*** | ***70000*** |  | ***YES*** |
| ***14*** | ***MINOR OT*** | ***AUTOCLAVE*** | ***1*** | ***INDFOS*** | ***LIFEX*** | ***2/26/2007*** | ***4500*** |  | ***YES*** |
| ***15*** | ***MINOR OT*** | ***NEEDLE DESTROYER*** | ***1*** | ***HOSPI-Time*** | ***#*** | ***2/26/2007*** | ***1200*** |  | ***YES*** |
| ***16*** | ***DRESSING ROOM*** | ***STIRLIZER*** | ***1*** | ***LOCAL MANUFACTURE*** | ***#*** | ***7/26/2006*** | ***4500*** | ***YES*** |  |
| ***17*** | ***DRESSING ROOM*** | ***NEEDLE DESTROYER*** | ***1*** | ***RAMTECH*** | ***#*** | ***2/26/2007*** | ***1200*** | ***YES*** |  |
| ***18*** | ***DRESSING ROOM*** | ***LAMP(OLD)*** | ***1*** | ***\**** | ***#*** | ***7/26/2006*** | ***6500*** |  | ***YES*** |
| ***19*** | ***ARSH CLINIC*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***ELECTROLUX*** | ***#*** | ***#*** | ***10000*** | ***YES*** |  |
| ***20*** | ***ARSH CLINIC*** | ***FRIDGE***  ***(SIMPLE)*** | ***1*** | ***GODREJ*** | ***GDN-180*** | ***8/9/2010*** | ***10000*** |  | ***YES*** |
| ***21*** | ***IT*** | ***Computer*** | ***2*** | ***HP/Lenovo*** | ***#*** | ***#*** | ***90000*** | ***yes*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **21** |
| **No. of staff** | **24** | **Total equipment cost** | **477400** |
|  | | **Total AMC/CMC value** | **33418** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **RAVANGLA PHC, South Sikkim , Sikkim** | | | | | | | | | |
| ***(1)***  ***S.No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7 )***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREZ*** | ***GDNC8583*** | ***#*** | ***10000*** |  | ***YES*** |
| ***2*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***C-852*** | ***#*** | ***65000*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20IBIMF*** | ***#*** | ***15500*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***AUTOANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5PLUS*** | ***#*** | ***125000*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***YSI-431*** | ***#*** | ***25000*** | ***YES*** |  |
| ***7*** | ***X-RAY ROOM*** | ***X-RAY MACHINE*** | ***1*** | ***SIEMENS*** | ***8272*** | ***1998*** | ***450000*** | ***YES*** |  |
| ***8*** | ***MINOR OT*** | **VERTICAL**  AUTOCLAVE | ***1*** | ***SI SURGICAL CORPERATION*** | ***SIS2022*** | ***2013*** | ***10000*** |  | ***YES*** |
| ***9*** | ***MINOR OT*** | ***VERTICAL***  ***AUTOCLAVE*** | ***1*** | ***\**** | ***\**** | ***#*** | ***10000*** |  | ***YES*** |
| ***10*** | ***MINOR OT*** | ***BOILER*** | ***3*** | ***\**** | ***\**** | ***#*** | ***13500*** |  | ***YES*** |
| ***(1)***  ***11*** | ***(2)***  ***MINOR OT*** | ***(3)***  ***OT TABLE*** | ***(4)***  ***1*** | ***(5)***  ***NHPC*** | ***(6)***  ***SUPER DELUX*** | ***(7)***  ***2013*** | ***(8)***  ***25000*** | ***(9)***  ***YES*** | ***(10)*** |
| ***12*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***2005*** | ***70000*** | ***YES*** |  |
| ***13*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***2005*** | ***70000*** |  | ***YES*** |
| ***14*** | ***MINOR OT*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI VAC*** | ***#*** | ***2002*** | ***6500*** |  | ***YES*** |
| ***15*** | ***MINOR OT*** | ***VERTICAL***  ***AUTOCLAVE*** | ***1*** | ***SI-SURGICAL CORPERATION*** | ***SIS2022*** | ***2013*** | ***10000*** |  | ***YES*** |
| ***16*** | ***MINOR OT*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***Jul-09*** | ***4500*** |  | ***YES*** |
| ***17*** | ***MINOR OT*** | ***VERTICAL***  ***AUTOCLAVE*** | ***1*** | ***NHPC*** | ***#*** | ***2013*** | ***10000*** |  | ***YES*** |
| ***18*** | ***OBSRVATION WARD*** | ***NEBULIZER*** | ***1*** | ***DR. MOREPHEN*** | ***CN-01*** | ***Jul-08*** | ***4500*** |  | ***YES*** |
| ***19*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTOTHERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***Jun-07*** | ***38000*** | ***YES*** |  |
| ***20*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***1*** | ***#*** | ***#*** | ***Apr-07*** | ***14000*** | ***YES*** |  |
| ***21*** | ***LABOUR ROOM*** | ***BOILER*** | ***2*** | ***LIFEX*** | ***#*** | ***#*** | ***9000*** |  | ***YES*** |
| ***22*** | ***LABOUR ROOM*** | ***FOOT OPERATED SUCTION MACHINE*** | ***1*** | ***#*** | ***#*** | ***Mar-07*** | ***4500*** | ***YES*** |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***(1)***  ***23*** | ***(2)***  ***LABOUR ROOM*** | ***(3)***  ***BOILER*** | ***(4)***  ***1*** | ***(5)***  ***LIFEX*** | ***(6)***  ***#*** | ***(7)***  ***Jan-09*** | ***(8)***  ***4500*** | ***(9)***  ***YES*** | ***(10)*** |
| ***24*** | ***DENTAL ROOM*** | ***DENTAL CHAIR*** | ***1*** | ***#*** | ***#*** | ***#*** | ***150000*** |  | ***YES*** |
| ***25*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***26*** | ***Computer*** | ***Computer*** | ***2*** | ***HP/Lenovo*** | ***#*** | ***#*** | ***90000*** | ***yes*** |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **26** |
| **No. of staff** | **22** | **Total equipment cost** | **1444000** |
|  | | **Total AMC/CMC value** | **101080** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **TEMI PHC,SOUTH SIKKIM** | | | | | | | | | |
| ***(1)***  ***S.no*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREZ*** | ***GDN185*** | ***2010*** | ***18000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***C-852*** | ***9/8/2010*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***2010*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***MLW*** | ***MLW LAB*** | ***May-97*** | ***15500*** |  | ***YES*** |
| ***5*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***HB*** | ***#*** | ***15500*** |  | ***YES*** |
| ***6*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***#*** | ***#*** | ***15500*** |  | ***YES*** |
| ***7*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***HB*** | ***55723*** | ***15500*** |  | ***YES*** |
| ***8*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH20I*** | ***9/8/2010*** | ***15500*** | ***YES*** |  |
| ***9*** | ***LAB*** | ***SEMI***  ***AUTOANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5PLUS*** | ***9/8/2010*** | ***125000*** | ***YES*** |  |
| ***10*** | ***LAB*** | ***DIGITAL COLLIMETER*** | ***1*** | ***SYSTRONICS*** | ***#*** | ***9/8/2010*** | ***3500*** | ***YES*** |  |
| ***11*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***#*** | ***#*** | ***25000*** |  | ***YES*** |
| ***12*** | ***LAB*** | ***AUTOCLAVE*** | ***1*** | ***LIFE-X*** | ***200*** | ***Apr-07*** | ***4500*** |  | ***YES*** |
| ***13*** | ***MINOR OT*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***14*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***NHPC*** | ***COGNATE*** | ***#*** | ***70000*** | ***YES*** |  |
| ***15*** | ***MINOR OT*** | ***VERTICAL AUTOCLAVE*** | ***1*** | ***DEL-CON*** | ***#*** | ***Nov-13*** | ***10000*** | ***YES*** |  |
| ***16*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***17*** | ***MINOR OT*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI VAC*** | ***#*** | ***Apr-07*** | ***6500*** |  | ***YES*** |
| ***18*** | ***MINOR OT*** | ***DRESSING AUTOCLAVE*** | ***1*** | ***SI-SURGICAL CORPERATION*** | ***#*** | ***Apr-07*** | ***4500*** | ***YES*** |  |
| ***19*** | ***MINOR OT*** | ***NEEDLE CUTTER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***1200*** | ***YES*** |  |
| ***20*** | ***MINOR OT*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***Jul-09*** | ***4500*** |  | ***YES*** |
| ***21*** | ***MINOR OT*** | ***EXAMINATION TABLE*** | ***1*** | ***#*** | ***#*** | ***Dec-13*** | ***14000*** | ***YES*** |  |
| ***22*** | ***MINOR OT*** | ***AUTOCLAVE*** | ***1*** | ***NHPC*** | ***#*** | ***2013*** | ***4500*** |  | ***YES*** |
| ***23*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTOTHERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***Apr-07*** | ***38000*** | ***YES*** |  |
| ***24*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***2*** | ***#*** | ***#*** | ***17/04/2007*** | ***28000*** | ***YES*** |  |
| ***25*** | ***LABOUR TABLE*** | ***EXAMINATION LIGHT*** | ***1*** | ***#*** | ***#*** | ***Apr-07*** | ***6500*** |  |  |
| ***26*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***27*** | ***LABOUR ROOM*** | ***FOOT OPERATED SUCTION MACHINE*** | ***1*** | ***#*** | ***#*** | ***Apr-07*** | ***4500*** | ***YES*** |  |
| ***28*** | ***LABOUR ROOM*** | ***WEIGHING MACHINE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***3000*** | ***YES*** |  |
| ***29*** | ***DENTAL ROOM*** | ***DENTAL CHAIR*** | ***1*** | ***#*** | ***#*** | ***#*** | ***150000*** |  | ***YES*** |
| ***30*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***31*** | ***IT*** | ***Computer*** | ***2*** | ***Hp/Lenovo*** | ***#*** | ***#*** | ***90000*** | ***yes*** |  |
|  |  |  |  |  |  |  |  |  |  |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **31** |
| **No. of staff** | **24** | **Total equipment cost** | **810200** |
|  | | **Total AMC/CMC value** | **56714** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MASTER EQIPMENT BASE** | | | | | | | | | |
|
| **YANGANG PHC,South sikkim,Sikkim** | | | | | | | | | |
| ***(1)***  ***S.***  ***No*** | ***(2)***  ***Equipment category*** | ***(3)***  ***Equipment name*** | ***(4)***  ***Qty*** | ***(5)***  ***Manufacturer*** | ***(6)***  ***Model*** | ***(7)***  ***Installation date*** | ***(8)***  ***TOTAL COST*** | ***Working status*** | |
|  |  |  |  |  |  |  | ***(9)***  ***W*** | ***(10)***  ***NW*** |
| ***1*** | ***LAB*** | ***REFRIGERATOR*** | ***1*** | ***GODREZ*** | ***#*** | ***#*** | ***10000*** | ***YES*** |  |
| ***2*** | ***LAB*** | ***CENTRIFUGE MACHINE*** | ***1*** | ***REMI*** | ***C-852*** | ***Mar/10*** | ***6500*** | ***YES*** |  |
| ***3*** | ***LAB*** | ***WATER BATH*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***#*** | ***25000*** | ***YES*** |  |
| ***4*** | ***LAB*** | ***MICROSCOPE*** | ***1*** | ***OLYMPUS*** | ***CH201*** | ***#*** | ***15500*** | ***YES*** |  |
| ***5*** | ***LAB*** | ***SEMI***  ***AUTOANALYZER*** | ***1*** | ***ERBA*** | ***CHEM-5PLUS*** | ***2011*** | ***125000*** | ***YES*** |  |
| ***6*** | ***LAB*** | ***HOT AIR OVEN*** | ***1*** | ***YORCO*** | ***YSI-413*** | ***2010*** | ***25000*** | ***YES*** |  |
| ***7*** | ***MINOR OT*** | ***AUTOCLAVE*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***8*** | ***MINOR OT*** | ***OT TABLE*** | ***1*** | ***COGNATE*** | ***#*** | ***#*** | ***70000*** | ***YES*** |  |
| ***9*** | ***MINOR OT*** | ***OT LIGHT*** | ***1*** | ***COGNATE*** | ***CLH-7*** | ***2005*** | ***70000*** |  | ***YES*** |
| ***10*** | ***MINOR OT*** | ***SUCTION MACHINE*** | ***1*** | ***SURGI VAC*** | ***#*** | ***2002*** | ***6500*** |  | ***YES*** |
| ***11*** | ***MINOR OT*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***12*** | ***MCH*** | ***NEEDLE DESTROYER*** | ***1*** | ***RAMTEC*** |  | ***07/Nov/12*** | ***1200*** | ***YES*** |  |
| ***13*** | ***LABOUR ROOM*** | ***RADIANT WARMER WITH PHOTOTHERAPY*** | ***1*** | ***MEDITRIN*** | ***#*** | ***#*** | ***38000*** | ***YES*** |  |
| ***14*** | ***LABOUR ROOM*** | ***LABOUR TABLE*** | ***2*** | ***#*** | ***#*** | ***#*** | ***28000*** | ***YES*** |  |
| ***15*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***16*** | ***LABOUR ROOM*** | ***FOOT OPERATED SUCTION MACHINE*** | ***1*** | ***ANAND*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***17*** | ***LABOUR ROOM*** | ***SUCTION MACHINE*** | ***1*** | ***SURGIVAC*** | ***#*** | ***#*** | ***6500*** |  |  |
| ***18*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***LIFEX*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***19*** | ***LABOUR ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***20*** | ***DRESSING ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** | ***YES*** |  |
| ***21*** | ***DRESSING ROOM*** | ***BOILER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***4500*** |  | ***YES*** |
| ***22*** | ***DRESSING ROOM*** | ***NEEDLE DESTROYER*** | ***1*** | ***#*** | ***#*** | ***#*** | ***1200*** |  | ***YES*** |

**Note-: (#) indicates not found & (\*) indicates not written or not visible**

|  |  |  |  |
| --- | --- | --- | --- |
| **No. of beds** | **10** | **Total No. of equipment** | **22** |
| **No. of staff** | **20** | **Total equipment cost** | **463400** |
|  | | **Total AMC/CMC value** | **32438** |

**DETAILED STUDY OF MEDICAL EQUIPMENT IN SOUTH DISTRICT OF SIKKIM**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No** | **Name of institution** | **No. of sanctioned beds** | **Type of hospital** | **Total equipment** | **Total cost of equipments** | **No. of working Equipments** | **No. of not working Equipments** | **% of not working equipments** | **AMC / CMC charges@7% of Asset values** |
| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8** | **NAMCHI**  **YANGYANG**  **RAVANGLA**  **TEMI**  **BERMOK**  **NAMTHANG**  **JORETHANG**  **MELLI** | **100**  **10**  **10**  **10**  **10**  **10**  **30**  **10** | **DH**  **PHC**  **PHC**  **PHC**  **PHC**  **PHC**  **CHC**  **PHC** | **145**  **28**  **27**  **30**  **25**  **28**  **22**  **25** | **17947400**  **463400**  **1444000**  **810200**  **616000**  **477400**  **1475400**  **994400** | **113**  **19**  **11**  **20**  **17**  **21**  **16**  **21** | **32**  **9**  **16**  **10**  **8**  **7**  **6**  **4** | **22.06**  **32.14**  **59.25**  **33.33**  **32.0**  **25.0**  **27.27**  **16.0** | **1256318**  **32438**  **101080**  **56714**  **43120**  **33418**  **103278**  **69608** |

Percentage of Disfunctioning equipments 16.0% to 59.25 %

**Summary of Biomedical Equipment Inventory Survey in west District (Sikkim)**

Name of facility with Highest Dysfunctional Rate : **P. H.C RAVANGLA**

Highest Dysfunctional Rate : **59.25 %**

Name of facility with Lowest Dysfunctional Rate : **P.H.C MELLI**

Lowest Dysfunctional Rate : **16.0%**

Average Dysfunctional Rate :**30.88** **%**

**Average CMC Cost @ 7% of the cost of Equipment**

Total No. of Equipment : **330**

CMC Cost for the whole District: **`Rs 1695974**

**CHAPTER- VI**

**RESEARCH STUDY FINDINGS AND ANALYSIS**

* Team faced universal problem of poor record keeping of medical equipment. Date of purchase, original cost of equipment, company user manual and detailed record of breakdown and maintenance was often not available. Research Study team had to make considerable efforts and search all sources to know the cost of equipment.
* Many types of medical equipment are not available in open market presently due to obselence, introduction of newer technology based on efficient software systems. Hence making maintenance programme a challenge and also costly.
* The comprehensive details of medical equipment in 2 District Hospitals, 14 PHCs of west (Geyzing) and South (Namchi ) District are given in Tables on next pages as per findings of four Research Teams which visited health facilities listed in the tables.
* Record of date of receipt or purchase of medical equipment was not available in large number of health facilities.
* There was no proper Inventory Ledger an most of the Facilities. Even there were no properly maintained RV Files for medical equipment.
* Cost of each equipment was not maintained in most places. Even company manufacturer label had disappeared in many medical equipment.
* Date of preventive maintenance or breakdown and breakdown maintenance was not available at most of facility sites ( DH,PHC,CHC)
* Medical Officers, Specialists, Nurses and Allied Health Professionals have no idea about medical equipment maintenance, calibration, management policy and procedures.
* Proper details of AMC / CMC often were not available.
* There was no evidence of training programme on medical equipment management of Staff.
* Staff was not aware of correct procedure and policies about condemnation, disposal, replacement procedure of non usable medical equipment.

**CHAPTER-VII**

**DISCUSSION**

1. Equipment control and asset management involves the management of medical devices within a facility and may be supported by automated information systems, since all healthcare facilities in the present decade has MIS /HIS system in the health facilities.

2. Medical Equipment control begins with the receipt of a newly acquired medical equipment continues through the equipment item's entire life-cycle. Newly acquired devices require to be inspected by health facility or contracted Biomedical Equipment Technicians (BMETs) staff ( as and when it occurs) who will receive an established equipment control number / Receipt Voucher (RV ) from the facilities Equipment or Stores Manager. This control number is used to track and record maintenance actions in their database or history sheet of each medical equipment. Once an equipment control number for Receipt or Issue Voucher ( Receipt & Issue Voucher) is established, the device is inspected for safety and made ready for issue to clinical and treatment areas in the OPDs ,ICU, OTs, NICU & Wards of DH,CHC & PHCs.

3. There is a need to have a proper medical equipment management work order policy and implementation to eliminate present poor state of equipment maintenance in most of the healthcare facilities. It involves systematic, measurable, and traceable methods to all initial inspections, preventive maintenance and calibrations or repairs by generating scheduled and unscheduled work orders. Work order management may be made computer based.

4. A comprehensive work order management system can also be used as a good resource and workload management tool by Medical Superintendents or Medical Equipment Stores Managers responsible for total number of hour’s technician spent working on equipment, maximum repair amount spent for one time repair, or total amount allowed to spend repairing equipment versus replacement.

5. Post-work order quality checks involve one of two methods – full check (medical equipment audit) of all work orders or randomly selected work orders. Randomly selected work orders should place more stringent statistical controls based on the clinical criticality of the device involved. In an ideal setting, all work orders are checked. Work orders must be tracked regularly and all discrepancies must be corrected.

**CHAPTER VIII**

**RECOMMENDATIONS & CONCLUSION**

1. Every healthcare facility ie DH,CHC & PHC should have policies and processes on equipment control & asset management.

2. Every Medical Officer and Stores Officer in all District Hospital, Community Hospital & Primary Health Centre needs to be given short capsule training in Medical Equipment and Inventory Management System.

3. Medical Stores Officer In-Charge or a designated Medical Officer for administration of Medical Equipment should be made responsible for continuous oversight and responsibility for ensuring safe and effective equipment performance through full service maintenance through out the year. There is a need to lay down a Government policy in each State and effective implementation of laid down policy and procedures.

4. Accurate, comprehensive on line data of medical equipment is needed to be maintained all DHs, CHCs & PHCs. It would be better to make it automated medical equipment management system

5. There is a need to introduce a monthly Report & Return from PHC , CHC & DH to State Director Health Services giving list of serviceable and non service able equipment action taken to get medical equipment repaired from the Biomedical equipment repair company under AMC.

6. There is a need to allot adequate dedicated Budget for AMC & CMC for medical equipment for all healthcare facilities in States.

7. It should be made mandatory for Senior District and State level Healthcare Executive Officers -CMOs, Director Medical & Health Services to visit the peripheral medical facilities at least twice a year, check and include status of Medical Equipment in their report.

8. Chief Medical Officers or Medical Superintendents of Medical Stores Managers who are responsible for equipment management in their organizations as per SOP of DH, CHC & PHC should also be made responsible for medical equipment technology assessment, developing policies and procedures for the medical equipment management plan, identifying trends and the need for hospital staff education, training, repair and maintenance of defective biomedical equipment.

9. The data needed to establish basic, accurate, maintainable automated records for medical equipment management would include:-

(a) Nomenclature - what the device is, how, and the type of maintenance is to be performed

(b) Manufacturer - Original Equipment Manufacturer (OEM).

(c) Nameplate Model and serial number - The model number located on the front or behind of the equipment

(d) Acquisition cost - total purchase price for an individual item or system. This cost includes installation, shipping, and other associated costs. These numbers are crucial for budgeting, maintenance expenditures, and depreciation accounting.

(e) Condition Code - This code is required when an item is turned in and should be changed when there are major changes to the device that could affect whether or not an item should be salvaged, destroyed, or used by another Medical Treatment

(f) Warranty,

(g) Location,

(h) Contractor agencies contracted for AMC/ CMC

(i) Scheduled maintenance due dates,

(j) Scheduled Calibration due dates,

(j) Proper utilisation of WEB \_BASED maintenance software

(k) validation for A E R B norm for the RADIATION equipment

10. **Summary-**

(a) There is a need to introduce Medical Equipment Management and Comprehensive Maintenance Policy and to be implemented in letter and spirit.

(b) Short capsule courses in Medical Equipment Inventory and Maintenance Management may be introduced and made compulsory for all Medical, Nursing & Allied Health professionals in all Public Health facilities.

**CHAPTER-IX**

**LIMITATIONS OF STUDY**

1. Poor record keeping of medical equipment. However maximum possible required data was captured at DHs, CHCc and PHCs.

2. Non automation of medical equipment inventory and fragmentation of data at different wards and departments causes difficulty in compilation of statistics.

3. History Sheet of Equipment i.e .date of purchase, installation, state of equipment , breakdown details and such details not easily available or not available in most of facilities causes difficulty in objective assessment of serviceability and in estimating Annual Maintenance Cost or Comprehensive Maintenance Cost.

4. Poor record keeping of break downs in a month /year.

5. There is no installation date and no record of cost of equipment..Store keeper also does not have record of equipments in district hospitals.

6.Some equipment is kept unneccessory in the department.there is no use of those equipments.

7.Many equipments were not working because No maintainance is given by the engineer for many years.

8. Department incharges did not know about the equipments. they were not able to operate the machines.

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* Khandpur, R. S. "Biomedical Instrumentation: Technology and Applications". McGraw Hills
* Health infrastructure of Sikkim
* https://www.google.co.in/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-
* 8#q=phc%20bed%20sanctioned%20in%20south%20district%20in%20sikkim
* Hospital bed sanctioned strength in Sikkim as on 30.062012
* Facility available in district hospital
* State health infrastructure in Sikkim
* Facility available in chc.
* Facility available in primary health centre.
* Facility available in primary health centre
* (Source: RHS Bulletin, March 2012, M/O Health & F.W., GOI)

**GLOSSARY**

**Biomedical Engineering** : Engineering principles and design to the biology and medical arena to improve health care and the lives of those with medical impairments. Bringing together knowledge from many engineering disciplines and technical fields, biomedical engineers design medical instruments, devices, and software; develop new procedures; conduct research; and solve clinical problems.

**Absolute Address.**The location of a storage element.

**Absolute Gain** The ratio of the signal level at the output of the device to that of its input under a

specified set of operating conditions.

**Absolute Maximum Rating -**The electrical rating at or above which damage to the device will occur, to include supply voltage, input/ and output voltages and junction temperature [among others found in a data sheet]. Stress ratings that do not imply functional operation.

**Absorption-** Dissipation of radio or sound waves as they interact with matter. The absorbing of light waves without reflection or refraction.

**Absorption, Law.** In Boolean algebra, the law which states that the odd term will be absorbed when a term is combined by logical multiplication with the logical sum of that term and another term, or when a term is combined by logical addition with the logical product of one term and another term (for example, A(A + B) = A + AB = A).

**Absorption Wave meter.** An instrument used to measure audio frequencies.

**ABS Plastic.** A type of plastic formed by Acrylonitrilt Butadiene Styrene and other chemicals

**AB Switch.** A device used to switch an incoming cable to either an 'A' output or 'B' output. Before the wide-spread introduction of dual output video cards, AB Switches were in common use with VGA outputs to switch from one monitor to another. However AB switches were produced to switch many types of cable interfaces, as in switching from one RS232 output to another, or switching betweenTV antennas as shown in the graphic to the right.

**AC** Alternating Current.

**Accelerated Life Testing** A test used to subject a component, device or system to extreme conditions to determine the useful life of the device under test which includes operating at elevated temperatures to simulate long term operation.

**Accelerating Anode.** An electrode charged several thousand volts positive and used to accelerate electrons toward the front of a Cathode -Ray Tube.

**Acceleration Servo system** A servo-system that controls the acceleration (rate of change in velocity) of a load.

**Accelerometer** A device that measures the acceleration to which it is subjected and develops a signal proportional to it.

**Acceptor Impurity** An impurity which, when added to a semiconductor, accepts one electron from a neighbouring atom and creates a hole in the lattice structure of the crystal. Also called Trivalent Impurity.

**Accessory.** An assembly of a group of parts or a unit which is not always required for the operation of a set or unit as originally designed but serves to extend the functions or capabilities of the set, such as headphones for a radio set supplied with a loudspeaker, a separate power unit for use with a set having a built-in power supply, or a remote control unit for use with a set having integral controls.

**Access Time** The difference in time between when data is requested and when data is delivered. The time elapsed between a given command and when the function is performed. The time for the access arm to reach the desired track and the delay for the rotation of the disk to bring the required sector under the read-write mechanism.

**AC Coupling** The interconnection between two circuits through a capacitor, transformer or other device

**Acoustic Noise** The unintended sound a component produces while operating. Some fields apply this to mean an audible sound, while other fields take it to mean any sound.

**Acoustic Wave.** A sound wave.

**AC Power Plug** A male connector designed to carry 120v or 240 volts. Also see Power Plug.

**AC Resistance** The opposition to the flow of current with out regard to phase shift or complex

impedance.

**Acquisition** The process of acquiring synchronism.

**Acquisition Time.** In a communications system, the time interval required to attain synchronism

**Banana Plug** A connector with the male -end using a Banana shaped, spring metal tip, providing a compression fit into a banana jack.

**Band-Elimination Filter** Same meaning as a Band-Reject Filter

**Cable.** An assembly of one or more insulated conductors, or optical fibres, or a combination of both, within an enveloping jacket. Either a stranded conductor (single -conductor cable) or a combination of conductors insulated from one another (multiple conductor cable). Small sizes are commonly referred to as stranded wire or as cords. A conductor with insulation, or a stranded conductor with or without insulation and other coverings (single -conductor cable), or a combination of conductors insulated from one another (multiple -conductor cable).

**Cable Armour** A covering of steel, wire , tape or some other material used to protect the internal conductors.

**Cable Assembly** A cable that is ready for installation in specific applications and usually terminated with connectors.

**Cable Carrier** A device that holds a cable. Also refer to a deta iled definition of Cable Carrier. In some case it may be called a cable retractor.

**Cable Clamp** A mechanical clamp attached to the wire entrance of a connector to support the cable or wire bundle, provide stress relief, and absorb vibration and shock. Also called a cable adapter bracket. Flat to round shown

**Carrier Card** A host card designed to hold two or more mezzanine cards, and having the primary

function of supporting the cards by providing a site for the mezzanine card. The VME card to the right acts as a carrier card for one or two PMC mezzanine cards [not shown] which would plug into the pair of black connectors just to the right of the white VME connector.

**Data Multiplexing** The process of combining two or more signals into a single composite signal.

**Data Processing** The execution of a systematic sequence of operations performed upon data.

Synonymous with information processing.

**Data Signalling Rat** [DSR] The aggregate rate at which data pass a point in the transmission path of a data transmission system.

**Earth Ground** The connection to earth. Ground. The most common connection to earth is via a water pipe. The graphic shows how to connect a Printed Circuit Board [PCB] ground to chassis ground. In many cases chassis ground will also connect to earth ground.

**Echo** The reflection of the original sound wave as it bounces off a distant surface. The RF signal

reflected back from a radar target.

**Failure** The inability of a component or system to perform its required function.

**Failure Rate** The amount of units failing per unit time, or over the units life. Failure rate over time is

divided into three general time periods; early failures [infant mortality], normal usage over time having aconstant failure rate, and an end-of-life wear-out failure period. Failure rates are higher during both the early life and wear-out periods and much lower and consistent during the devices useful life. One method of reducing early failures is by a Burn In test.

**Failsafe** Built-in safety characteristics of a unit or system so that unit or system failure or a loss of

control power will not result in an unsafe condition. The design feature of a part, unit or equipment which allows the item to fail only into a non-hazardous mode. Of a device, the capability to fail without detriment to other devices or danger to personnel. If a component were to fail, it will fail in a safe condition.

**False Clock** A condition where a phase-locked loop controlling a clock locks on a frequency other than the correct frequency.

**False Lock** A condition where a phase-locked loop locks to a frequency other than the correct one, or to an improper phase.

**Generator** A machine that converts mechanical energy to electrical energy by applying the principle of magnetic induction. A machine that produces ac or dc voltage, depending on the original design.

**Hard Copy** A physical print out.

**Hard Disk** [HD] A flat, circular, rigid plate with a magnetisable surface on one or both sides used to

store data. Also called a Hard Disk Drive [HDD]. Note: A hard disk is distinguished from a diskette

[floppy Dis k] by virtue of the fact that it is rigid and not considered removable.

**Hardware.** The physical equipment or component used to perform some function, in contrast to

software.

**Hardware Interrupt.** An interrupt signal received from a component external to the processor operating on the interrupt. A signal to the processor that a peripheral requires attention.

**Harmonic.** A frequency that is a whole-number multiple of a smaller base frequency. Of a sinusoidal

wave, an integral multiple of the frequency of the wave. Harmonic percentages of a half sine wave; 2nd, 21.2%, 3rd, 0%, 4th 4.2%, 5th, 0% and 6th harmonic is 1.8%.

**Impedance Bridge.** A bridge circuit used for measuring resistance and reactance.

**Impulse** A short surge of electrical, magnetic, or electromagnetic energy. A unidirectional voltage that rises rapidly and than decays to zero at a slower rate.

**Incandescent** The process of emitting light by being heated to a high temperature, as in passing current through a wire until it heats up [light bulb].

**Incandescent Light Bulb** An incandescent lamp or incandescent light makes light by heating a metal filament wire to a high temperature until it glows. Note that an incandescent bulb output light in a particular light spectrum

**Junction Box.** A box with a cover tha t serves the purpose of joining different runs of wire or cable and provides space for the connection and branching of the enclosed conductors. An enclosure of other than cast metal designed to house, mount, and protect, but does not include wiring connections or electrical devices such as terminals, terminal boards, switches, jacks, fuse-holders, connectors, or circuit breakers.um. A lamp or bulb that generates light by incandescence.

**Kilo.** A prefix meaning one thousand, 103.

**Kilowatt-hour.** [kWh] One thousand watts acting over a period of 1 hour. The kWh is a unit of energy. 1kWh=3600 kJ.

**Kinetic Energy** Energy that a body possesses by virtue of its motion.

**Machine Language** A language that need not be modified, translated, or interpreted before it can be

used by the processor for which it was designed.

**Mark** An interval during which a signal is present. Also the presence of an RF signal in cw keying. The key-closed condition (presence of data) in communications systems. A high level in an RS232 System [the opposite of a Space].

**Maximum Ratings** The maximum operating characteristics a device will operate at with out damage, at some operating temperature.

**Maximum Safe Operating Area** Same as Safe Operating Area [SOA] which is the area bounded under a curve such that the combination of maximum current and maximum voltage are not exceeded. The graph to the right shows an example which includes individual lines for current x voltage duration. DC is the lowest blue line, orange is 1000mS, green is 100mS, pink is 10mS and so on. So continuous operation [DC] results in the smallest SOA, while larger voltages or currents may be used as the duration is decreased.

**Nano** One billionth, or 10 e-9

**Neon** A inert gas used in tubes, bulbs or signs.

**Neon Bulb** A bulb or lamp filled with the inert gas which lights when an AC or DC voltage potential is applied to the terminals of the bulb. For most applications the LED has replaced the Neon bulb.

**Nesting** In computer programming, a sub-routine embedded within another sub-routine

**Object Code** The output from a complier.

**Obsolete** Products that have been replaced by a newer or more advanced function. Products that have

been discontinued or no longer being manufactured. Also refer to

**Occupied Bandwidth** The width of a frequency band such that below the lower and above the upper

frequency limits, the mean powers emitted are each equal to a specified percentage of the t otal mean

power of a given emission [0.5%].

**Ohm** The unit of electrical resistance. That value of electrical resistance through which a constant

potential difference of 1 volt across the resistance will maintain a current flow of 1 ampere through the resistance.

**Paired Cable** A term that refers to a cable that contains one or more twisted paired wires. A cable that contains wires that are twisted in pairs, but the wires pairs are not twisted with one another.

**Radio Frequency** [RF] Any frequency of electromagnetic energy capable of propagation into space. The frequencies that fall between 3 kilohertz and 300 gigahertz used for radio communications. Any

frequency within the electromagnetic spectrum normally associated with radio wave propagation.

**Safe Operating Area** [SOA]. The area bounded under a curve such that the combination of maximum current and maximum voltage are not exceeded.

**Safety Factor** The amount of a devices characteristic(s) which may be increased over and above the components normal operating rating without causing damage to the device. In some respects a Safety Factor is the opposite of Component Derating.

**Safety Margin** In electronics this is the difference between a specified value and the actual value. For example a measured value for an IC might produce a number that varies with some tolerance [10percent], the value that gets inserted into the data sheet reflects this average value with the added safety margin of 10 percent.

**Tensile Strength** The greatest stress a substance can withstand along its length without tearing apart.

**Terminal** An electrical connection. That part of the component package used in making an electrical, mechanical, or thermal connection. Examples of terminals are flexible leads, rigid leads, studs, and cases which serve as electrical connections. A number of board mounting terminals are shown in the graphic below. The graphic includes a wire warp terminal, a press-fit, a solder post, a solder cup [which holds solder], and a compression fit connection .

**Unit** An assembly or any combination of parts, subassemblies, and assemblies mounted together.

Normally capable of independent operation. A single object or thing.

**Unit Impulse** A mathematical artifice consisting of an impulse of infinite amplitude and zero width, and having an area of unity.

**Unit Size** The standards adopted to make comparisons between things of like value (for example, the unit size for conductors is the mil-foot).

**Vacuum Tube** An electron tube evacuated such that its electrical characteristics are essentially

Unaffected by the presence of residual gas.

**Watt** The unit of electrical power that is the product of voltage and current. The unit of electric power, or amount of work (J), done in a unit of time. One ampere of current flowing at a potential of one volt produces one watt of power.

**Wattage Rating** A rating expressing the maximum power that a device can safely handle.

**X** Irrelevant / Don't care. Used in logic True Tables and timing diagrams to indicate that the input has no effect on the output.

**X-Band** A radio frequency band from 8000MHz to 12,000MHz

**YAG** Yttrium-Aluminium-Garnet.

**Zeroing** The process of adjusting a synchrony or some other component to its electrical zero position.

**ZIP Drive.** A floppy drive system developed by Iomega which had a much larger storage capacity than normal floppy disk drives. This style drive was widely used, along with floppy drives, before the advent of larger memory USB thumb drive