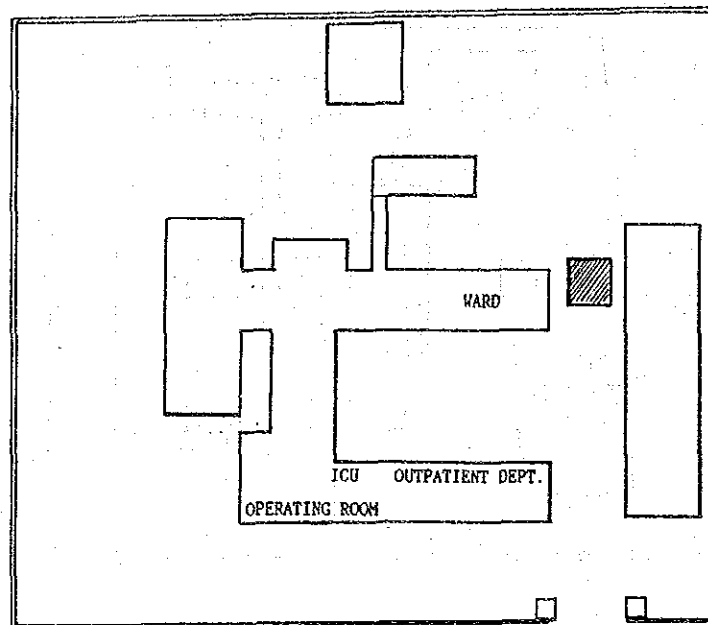


Code no. : N.C.R. - 1

9 Eulogio Rodriguez Sr. Memorial Hospital
Marikina, Metro Manila

No. of Beds: 100

A. Plot Plan



B. Photo

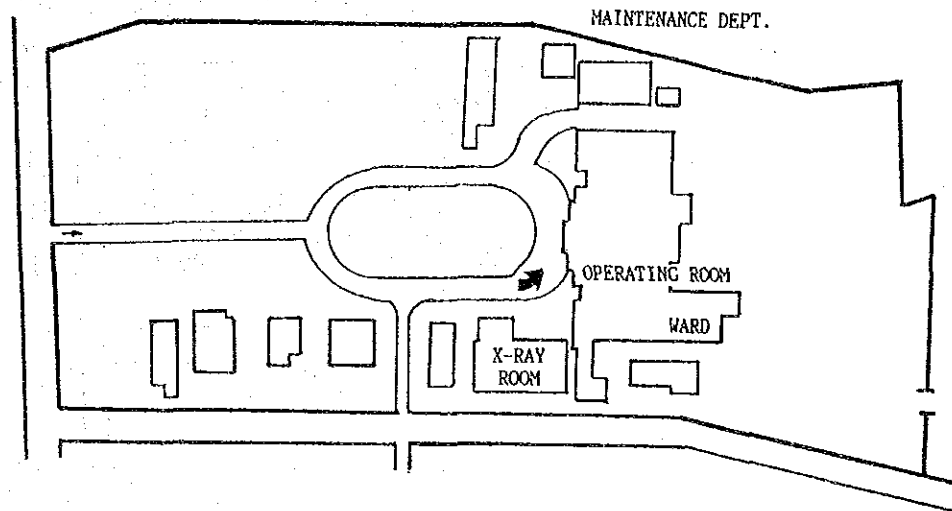


Code no. : IV - 1

10 Marinduque Provincial Hospital
Boac, Marinduque

No. of Beds: 100

A . Plot Plan



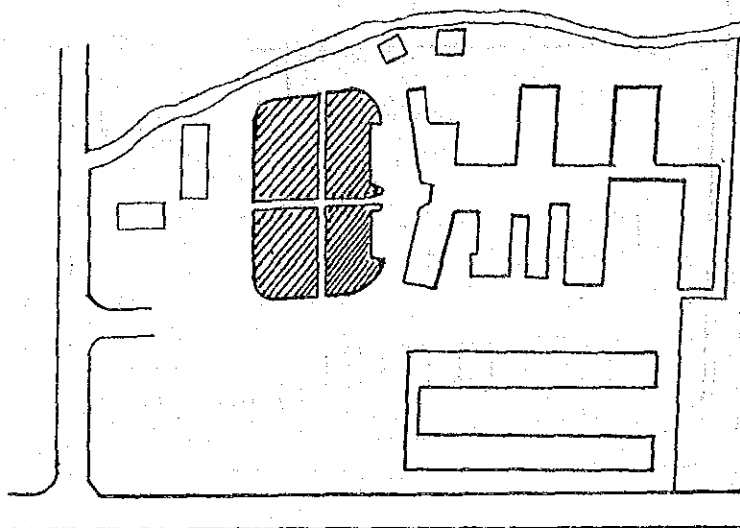
B . Photo



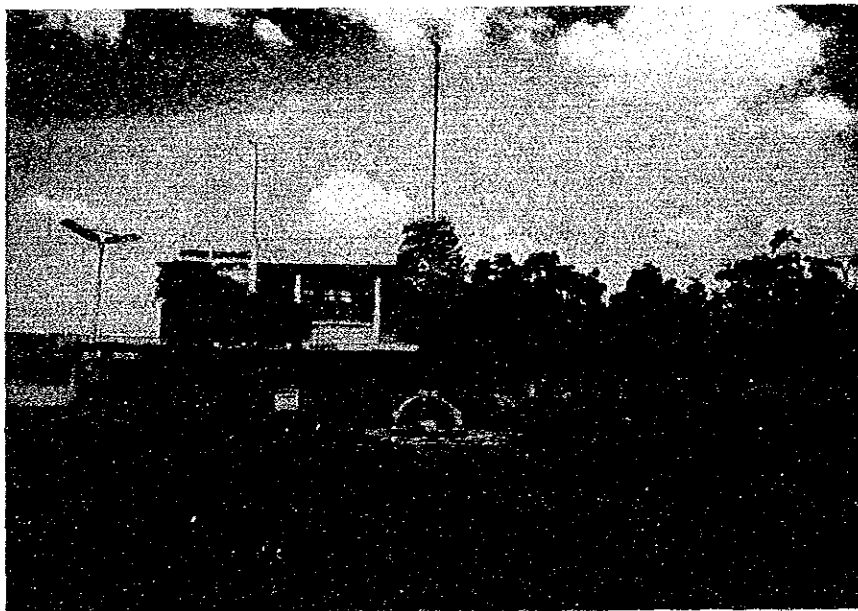
Code no. : IV - 2

11. Anders Bonifacio Memorial Hospital No. of Beds: 150
Trece Martirez, Cavite

A. Plot Plan



B. Photo

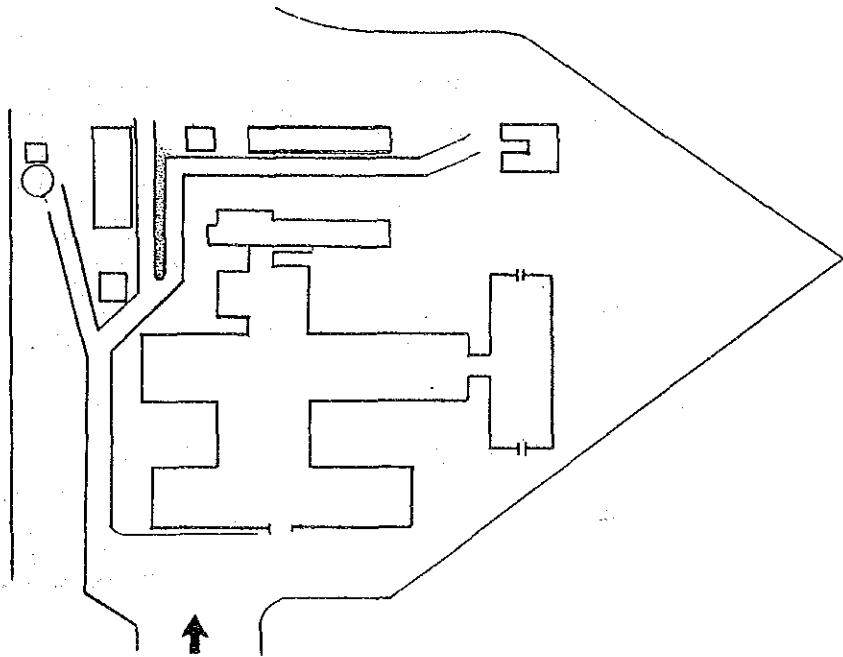


Code no. : IV - 3

12 Mindoro Occidental Provincial Hospital
Mamburao, Mindoro Occidental

No. of Beds: 100

A . Plot Plan



B . Photo

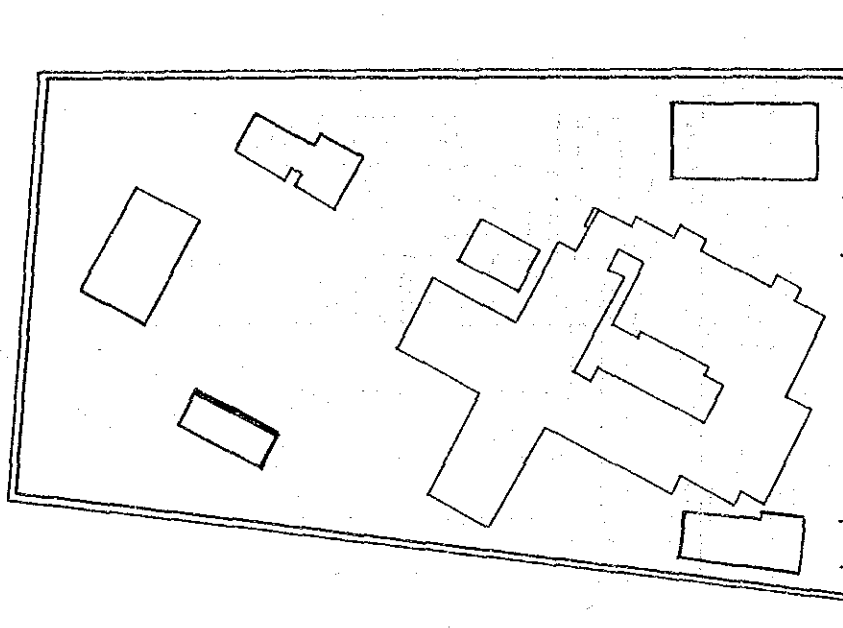


Code no. : IV - 4

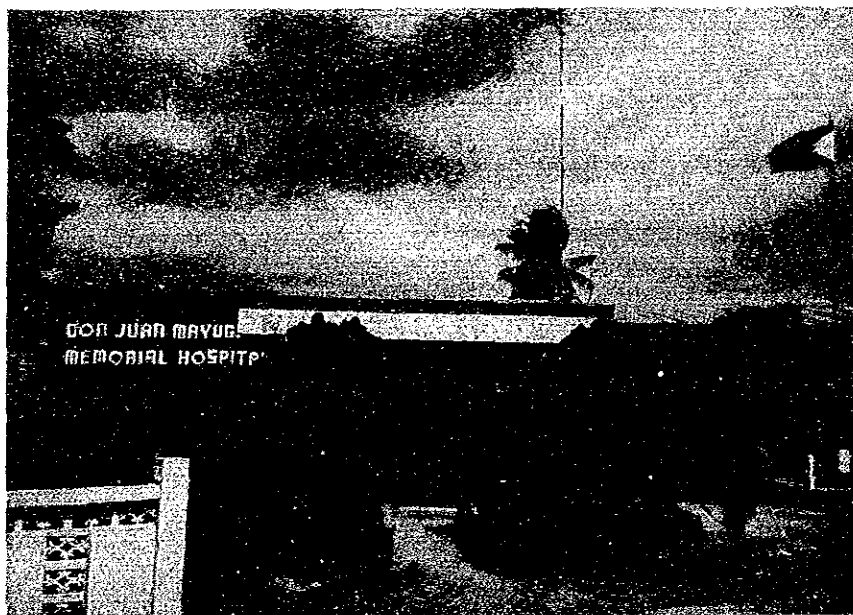
13 Batangas Provincial Hospital
Lemery, Batangas

No. of Beds: 50

A . Plot Plan



B . Photo



Code no. : IV - 5

14 Mindoro Provincial Hospital
Calapan, Mindoro Oriental

No. of Beds: 100

A. Plot Plan

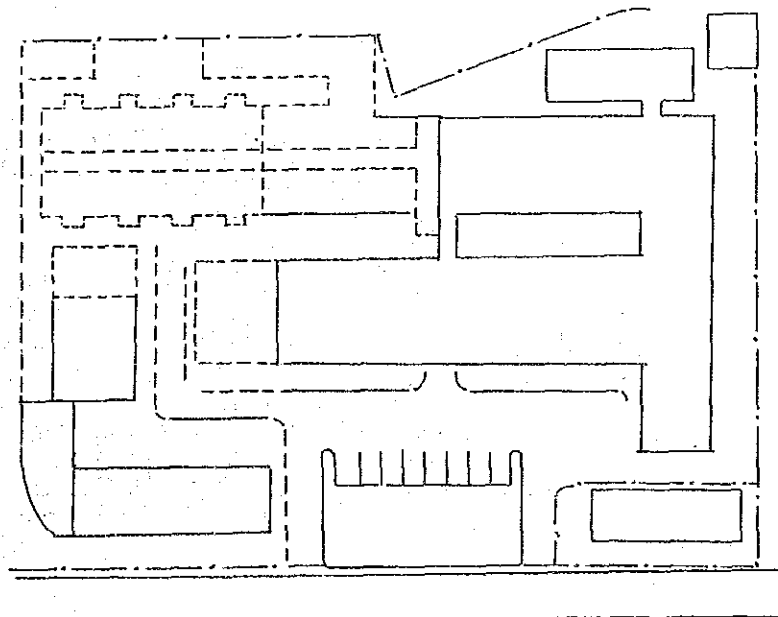
※ NIL

Code no. : IV - 6

15 Aurora Memorial Hospital
Baler, Aurora

No. of Beds: 25

A. Plot Plan

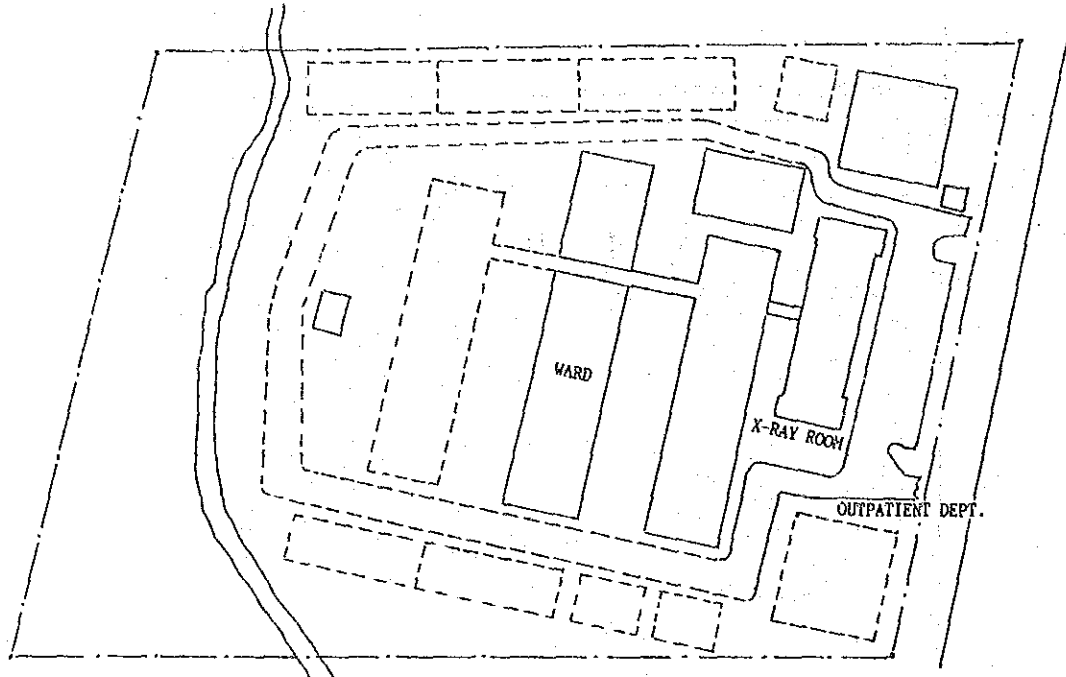


Code no. : IV-7

16 Puerto Princesa Provincial Hospital
Puerto Princesa, Palawan

No. of Beds: 50

A. Plot Plan

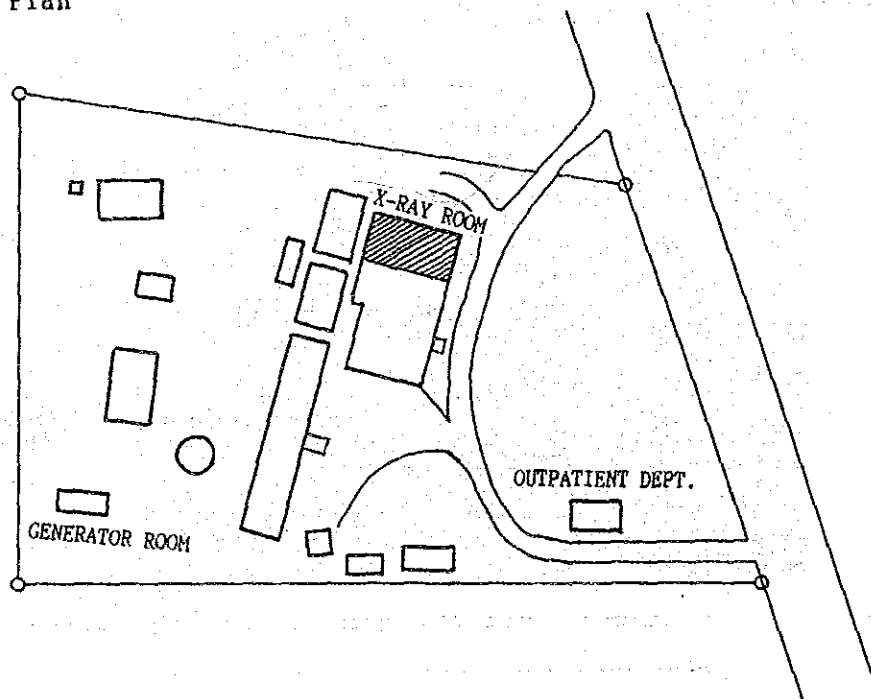


Code no. : IV-8

17 Romblon Provincial Hospital
Odiongan, Romblon

No. of Beds: 100

A. Plot Plan

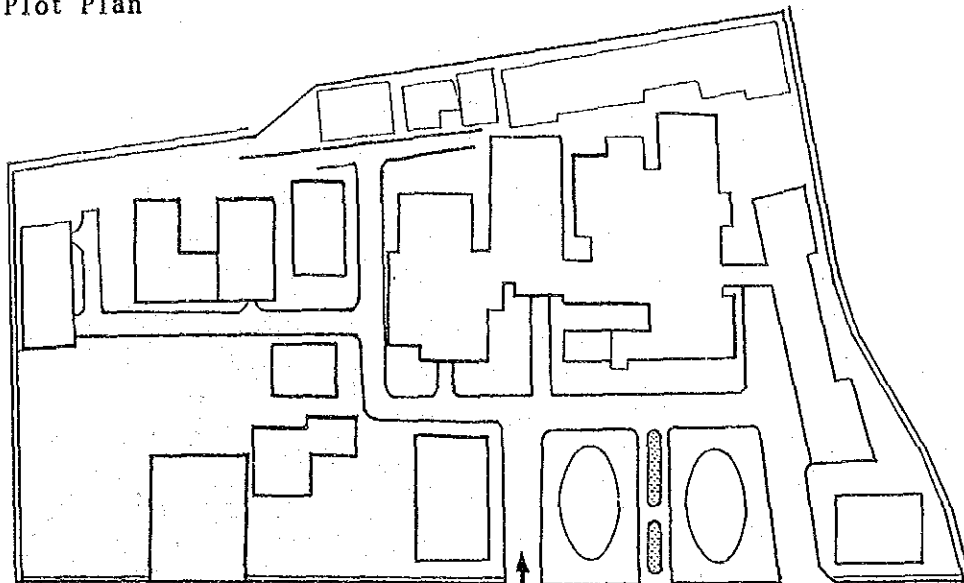


Code no. : V - 1

18 Camarines Norte Provincial Hospital
Daet, Camarines Norte

No. of Beds: 150

A. Plot Plan

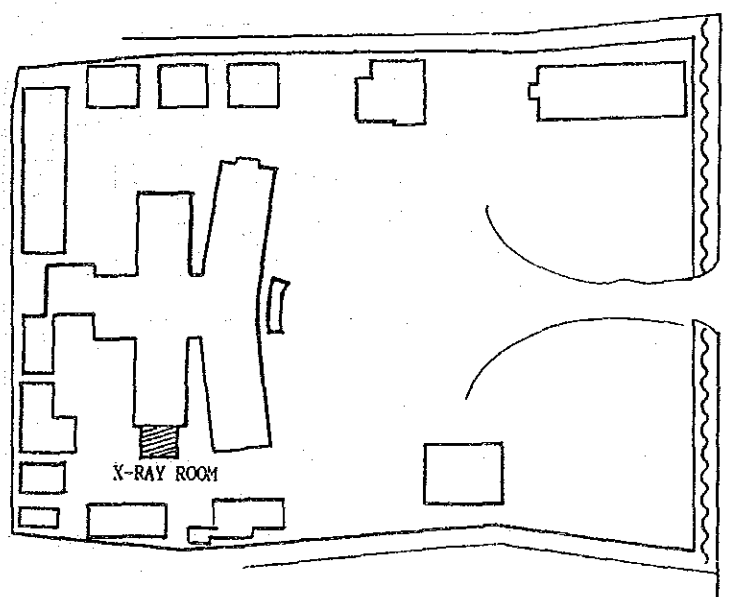


Code no. : V - 2

19 Eastern Bicol Medical Center
Virac, Catanduanes

No. of Beds: 200

A. Plot Plan

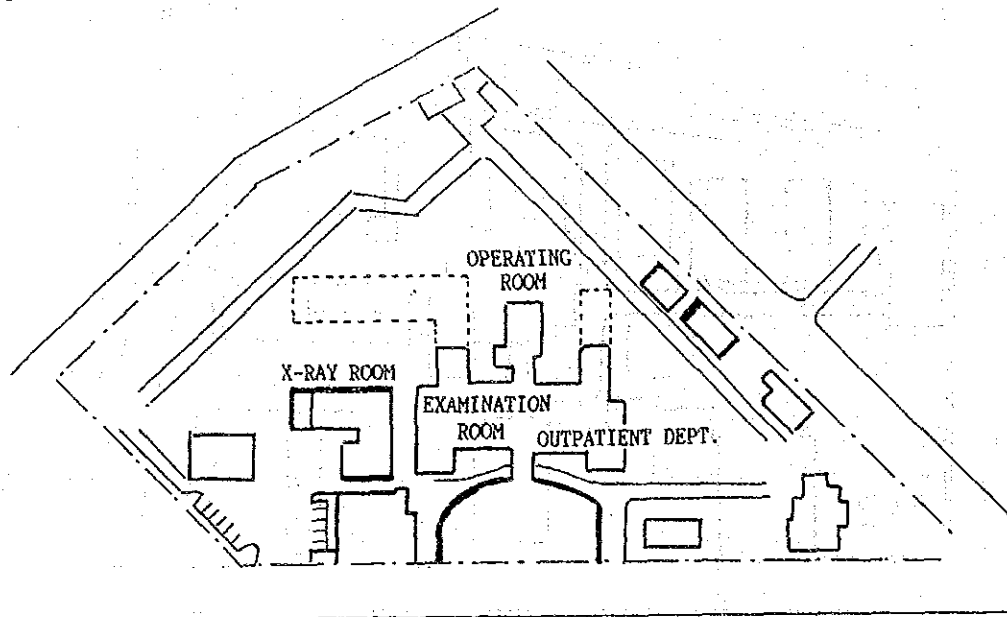


Code no. : V - 3

20 Masbate Provincial Hospital
Masbate, Masbate

No. of Beds: 100

A. Plot Plan

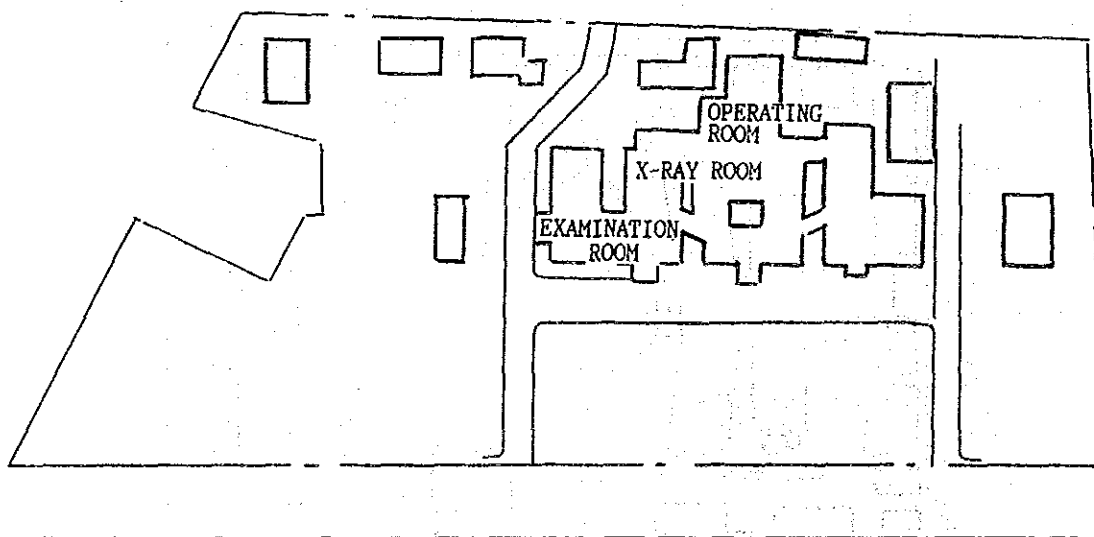


Code no. : VI - 1

21 Dr. Rafael Tumbokon Memorial Hospital
Kalibo, Aklan

No. of Beds: 100

A. Plot Plan

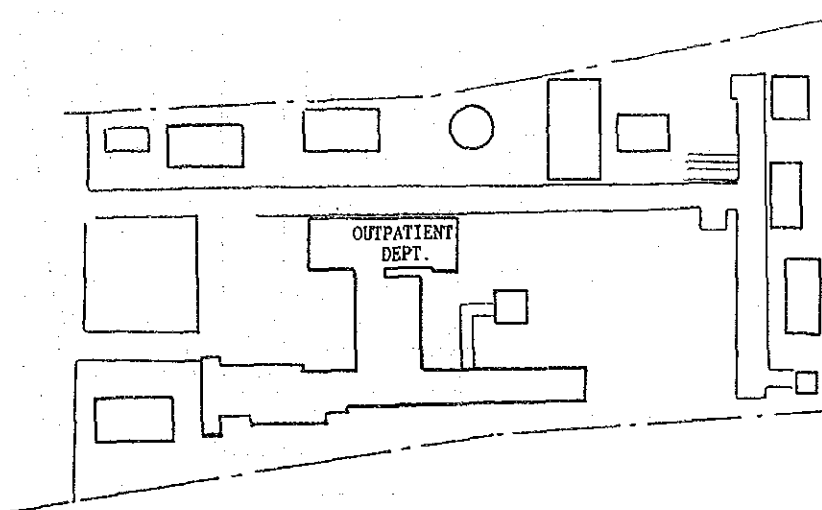


Code no. : VI - 2

22 Delegate Angel Salazar Memorial Hospital
San Jose, Antique

No. of Beds: 100

A . Plot Plan

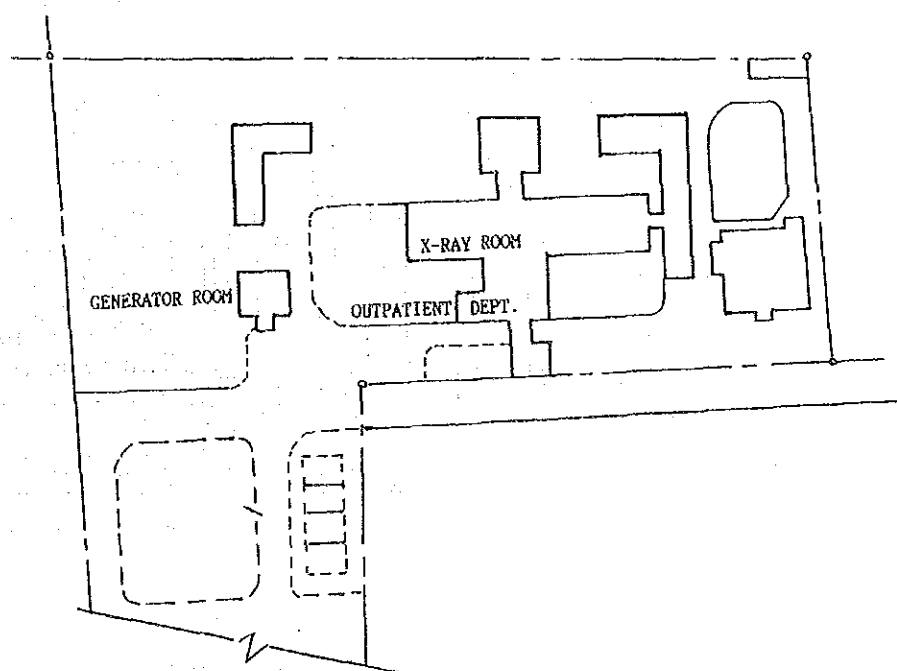


Code no. : VI - 3

23 Guimaras District Hospital
Jordan, Guimaras

No. of Beds: 25

A . Plot Plan

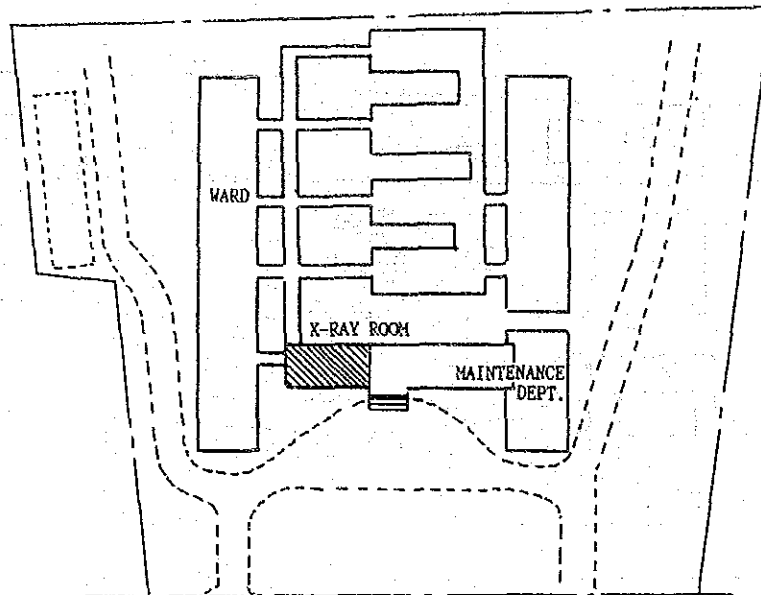


Code no. : VII - 1

24 Congressman Maximino Garcia Memorial Hospital
Talibon, Bohol

No. of Beds: 75

A. Plot Plan

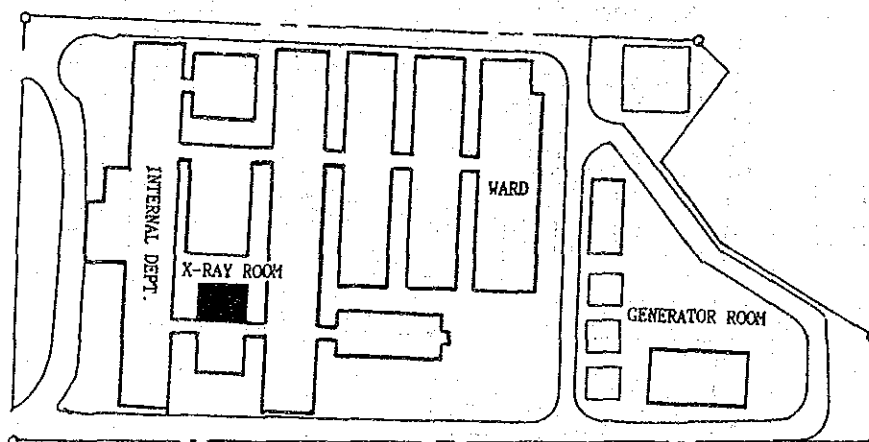


Code no. : VIII - 1

25 Northern Samar Provincial Hospital
Cataraman, Northern Samar

No. of Beds: 100

A. Plot Plan

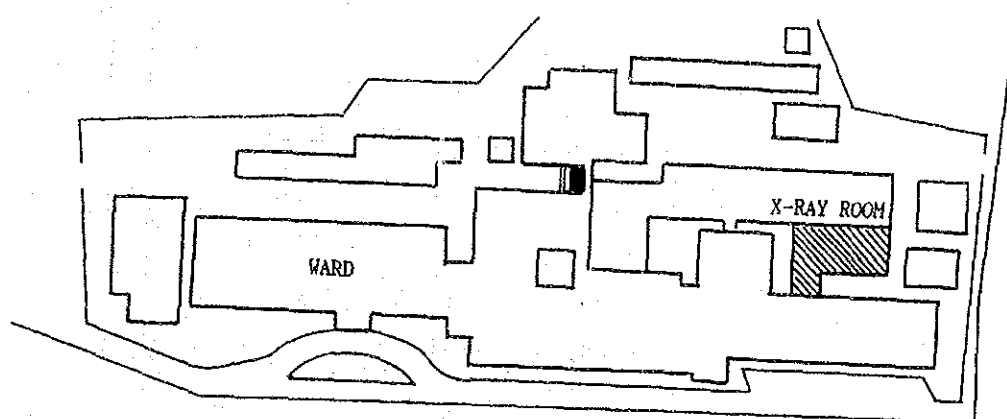


Code no. : VM - 2

26 Western Samar Provincial Hospital
Catbalogan, Western Samar

No. of Beds: 100

A. Plot Plan

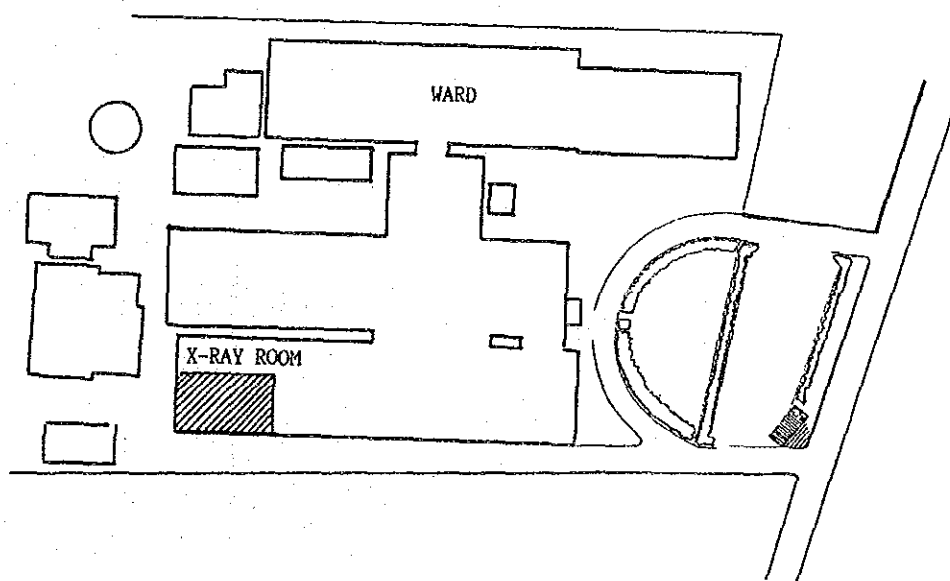


Code no. : IX - 1

27 Zamboanga Del Sur Provincial Hospital
Pagadian, Zamboanga Del Sur

No. of Beds: 50

A. Plot Plan

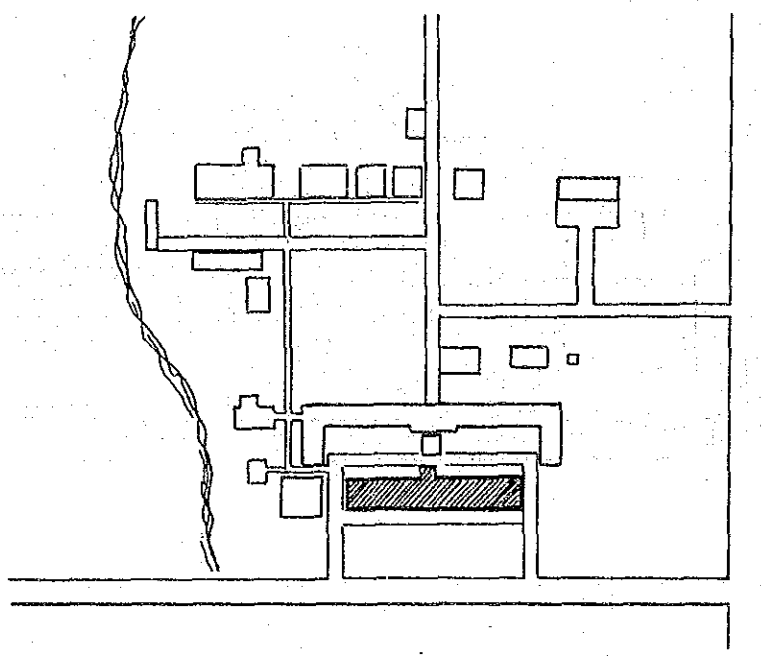


Code no. : X - 1

28 Agusan Del Sur Provincial Hospital
Patin-Ay Prosperidad, Agusan Del Sur

No. of Beds: 100

A. Plot Plan

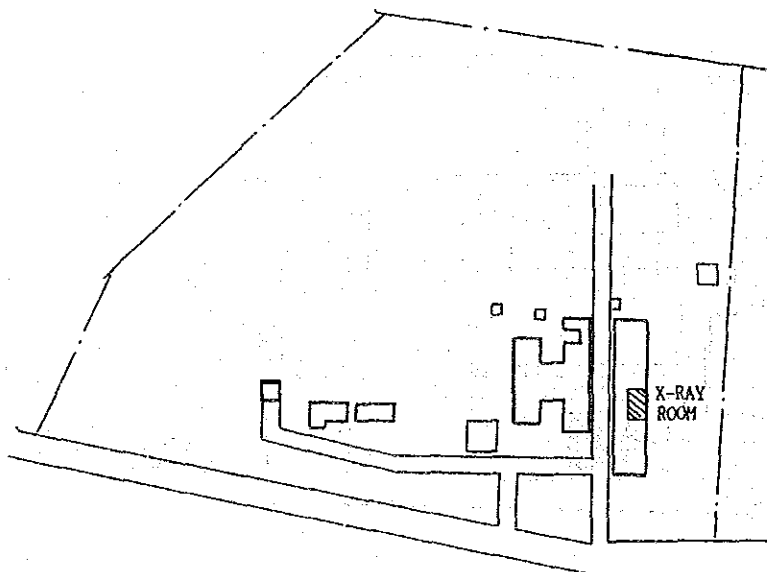


Code no. : XI - 1

29 Davao Oriental Provincial Hospital
Mati, Davao Oriental

No. of Beds: 100

A. Plot Plan

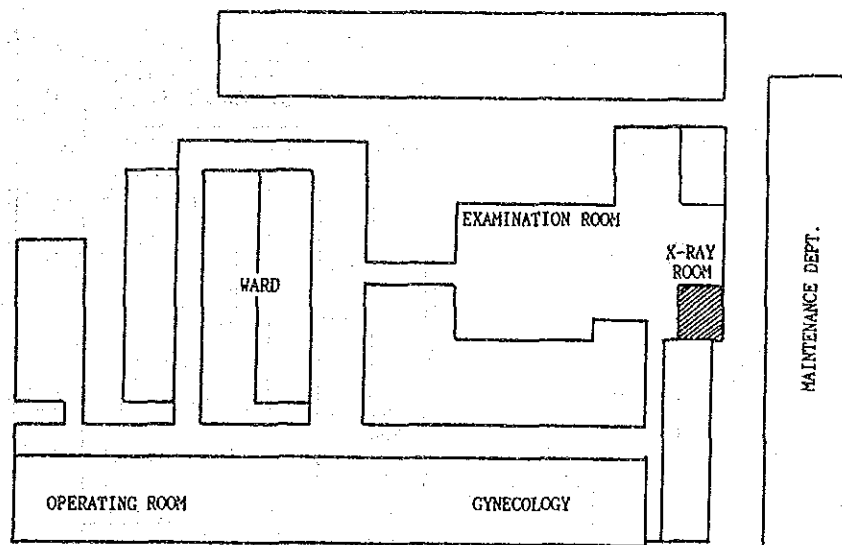


Code no. : XII - 1

30 Iligan City District Hospital
Iligan City, Lanao Del Norte

No. of Beds: 100

A. Plot Plan

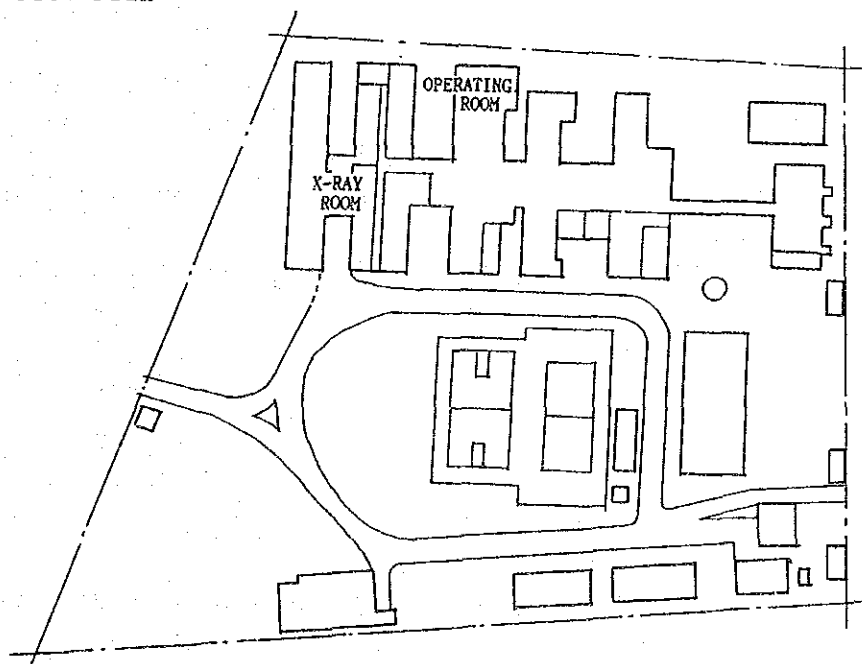


Code no. : XII - 2

31 Lanao Del Norte Provincial Hospital
Baroy, Lanao Del Norte

No. of Beds: 75

A. Plot Plan

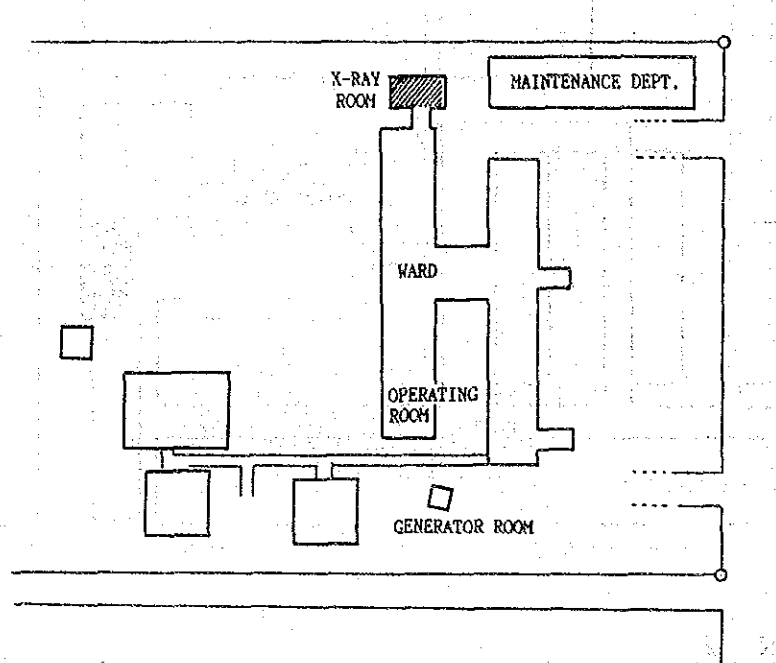


Code no. : XII - 3

32 Maguindanao Provincial Hospital
Maganoy, Maguindanao

No. of Beds: 50

A . Plot Plan



4-2, Project Description

(1) Execution Agency

The organs in the Philippines related to this project are as follows.

- 1) Organ in charge : Department of Health
- 2) Agency in charge
of operation : Office for Hospital & Facilities Service
- 3) Proposed hospitals
of the project : Provincial hospitals (32 places) and hospital maintenance section.

(2) Operational Structure

- 1) Although the responsible body for implementing this project is the Department of Health of the Philippines, the Office for Hospital & Facilities Service is in overall charge of actual operations through the following four sections and the respective budgets.

| | <u>Personnel</u> (persons) | <u>Budget</u> (peso) | <u>D u t i e s</u> |
|--|-------------------------------|-------------------------|--|
| Office for Hospital Facilities Service | 12 | | |
| Hospital Operation & Management Section | 43 | 4,011,000 | In charge of allocation of budget and personnel, and procurement of equipment |
| Radiological Health | 44 | 2,897,000 | Guidance on installation standards of X-ray unit |
| Hospital Maintenance Service Section | 48 | 2,947,000 | Maintenance and repair of equipment of facilities |
| Health Infrastructure Section | 38 | 2,727,000 | Supervisory of design on new and expanded facilities |
| Total: | 185 | 12,582,000 | |

Remarks: There is no independent allocation of budgets for the Office for Hospital Facilities Service.

2) The Proposed Hospital

The operational structure of each proposed hospital is as follows.

TABLE IV-2 OUTLINE OF THE PROPOSED HOSPITAL

| Region | Medical | Physician | Nurse | Number of Patients | | | | | Number of Test | | |
|--|---------|-----------|-------|--------------------|---------|------------|------------|-----------|----------------|---------|--------|
| | | | | Internal Medicine | Surgery | O. B. GYN. | Pediatrics | Radiology | Blood | Malaria | T. B. |
| I 1. ABRA PROVINCIAL HOSPITAL | 102 | 20 | 28 | 7,635 | 278 | 228 | 2,830 | 2,332 | 6,992 | 732 | 25 |
| 2. ILOCOS NORTE PROVINCIAL HOSPITAL | 165 | 29 | 36 | 13,229 | 735 | 467 | 7,469 | 2,117 | 1,921 | 34 | 1,282 |
| 3. GABRIELA SILANG GENERAL HOSPITAL | 138 | 28 | 30 | 5,916 | 978 | 913 | 4,125 | 5,071 | 17,723 | 67 | 67 |
| II 1. NUEVA VIZCAYA PROVINCIAL HOSPITAL | 216 | 44 | 50 | 14,645 | - | 1,043 | 6,908 | 4,063 | 18,242 | 3,848 | 283 |
| 2. APARRI PROVINCIAL HOSPITAL | 64 | 12 | 11 | 15,491 | 836 | 235 | 789 | 2,300 | 4,830 | - | 133 |
| 3. BATANES PROVINCIAL HOSPITAL | 86 | 9 | 18 | 5,573 | 80 | 272 | 415 | 530 | 1,009 | 39 | 81 |
| III 1. BULACAN PROVINCIAL HOSPITAL | 219 | 44 | 58 | 10,935 | 1,352 | 686 | 17,593 | 8,709 | 83,846 | 146 | 410 |
| 2. PAMPANGA PROVINCIAL HOSPITAL | 205 | 23 | 28 | 10,438 | 1,169 | 528 | - | 3,487 | 9,331 | 30 | 17 |
| NCR 1. EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | 243 | 47 | 53 | 8,354 | 1,005 | 3,372 | 17,593 | 6,465 | 15,980 | 508 | 479 |
| IV 1. MARINDUQUE PROVINCIAL HOSPITAL | 119 | 20 | 25 | 6,840 | 2,500 | 1,037 | 10,448 | 1,950 | 1,240 | 730 | 457 |
| 2. ANDERS BONIFACIO MEMORIAL HOSPITAL | 188 | 44 | 38 | 10,159 | 4,939 | 1,254 | 2,564 | 6,100 | 24,112 | 2,301 | 3,735 |
| 3. MINDORO OCCIDENTAL PROVINCIAL HOSPITAL | 123 | 16 | 22 | 4,077 | 821 | 260 | 4,513 | 1,190 | 3,428 | 94 | 159 |
| 4. BATANGAS PROVINCIAL HOSPITAL | 65 | 14 | 13 | 7,259 | 439 | 623 | 3,755 | 2,973 | 9,770 | 391 | 185 |
| 5. MINDORO PROVINCIAL HOSPITAL | 153 | 29 | 31 | 7,898 | 8,160 | 2,139 | 5,102 | 5,952 | 9,580 | 558 | 494 |
| 6. AURORA MEMORIAL HOSPITAL | 48 | 6 | 6 | 1,336 | 226 | 303 | 4,544 | 1,623 | 4,747 | 2,623 | 302 |
| 7. PUERTO PRINCESA PROVINCIAL HOSPITAL | 114 | 10 | 13 | 2,259 | 340 | 838 | 4,759 | 3,658 | 1,318 | 8,679 | 41 |
| 8. ROMBLON PROVINCIAL HOSPITAL | 105 | 13 | 25 | 950 | 225 | 541 | 4,424 | 1,264 | 2,894 | 132 | 189 |
| V 1. CAVARINES NORTE PROVINCIAL HOSPITAL | 302 | 37 | 55 | 2,455 | 515 | 1,614 | 6,173 | 4,409 | 22,388 | 5,068 | 741 |
| 2. EASTERN BICOL MEDICAL CENTER | 236 | 34 | 41 | 2,266 | 416 | 914 | 9,854 | 3,374 | 24,382 | 19 | 1,026 |
| 3. MASBATE PROVINCIAL HOSPITAL | 164 | 24 | 35 | 2,311 | 420 | 925 | 5,084 | 2,571 | 31,338 | 275 | 604 |
| VI 1. DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL | 317 | 43 | 58 | 17,329 | 429 | 188 | 5,169 | 4,189 | 11,551 | - | 18 |
| 2. DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL | 149 | 21 | 33 | 13,117 | 793 | 812 | 2,936 | 6,651 | 17,687 | 0 | 261 |
| 3. GUINARAS DISTRICT HOSPITAL | 60 | 6 | 9 | 848 | 150 | 225 | 5,686 | 1,780 | 1,873 | 6 | 279 |
| VII 1. CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL | 97 | 7 | 26 | 1,807 | 387 | 276 | 8,423 | 733 | 3,352 | - | - |
| VIII 1. NORTHERN SAMAR PROVINCIAL HOSPITAL | 133 | 20 | 38 | 1,517 | 263 | 559 | 7,723 | 1,765 | 4,477 | 721 | 1,289 |
| 2. WESTERN SAMAR PROVINCIAL HOSPITAL | 131 | 18 | 32 | 1,311 | 402 | 379 | 6,724 | 9,68 | 22,745 | 1,194 | - |
| IX 1. ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | 113 | 21 | 15 | 2,428 | 334 | 664 | 5,382 | 9,974 | 18,870 | 3,621 | 3,562 |
| X 1. AGUSAN DEL SUR PROVINCIAL HOSPITAL | 120 | 16 | 24 | 3,416 | 491 | 643 | 5,274 | 4,450 | 30,435 | 3,480 | 437 |
| XI 1. DAVAO ORIENTAL PROVINCIAL HOSPITAL | 113 | 19 | 20 | 1,992 | 519 | 651 | 6,784 | 2,611 | 15,087 | 1,998 | 722 |
| XII 1. ILIGAN CITY DISTRICT HOSPITAL | 107 | 43 | 28 | 2,681 | 996 | 1,771 | 5,167 | 5,797 | 6,388 | 571 | 618 |
| 2. LANAO DEL NORTE PROVINCIAL HOSPITAL | 234 | 32 | 36 | 1,918 | 385 | 450 | 9,572 | 3,146 | 15,795 | 586 | - |
| 3. MAGUINDANAO PROVINCIAL HOSPITAL | 47 | 12 | 12 | 679 | 75 | 77 | 3,491 | 443 | 2,770 | 958 | 371 |
| TOTAL | 4,676 | 761 | 947 | 189,069 | 25,658 | 25,069 | 190,973 | 112,345 | 446,101 | 39,409 | 18,261 |

* Data was not obtainable

Source : Field Survey

(3) Project undertaking

This project is a continuation of the "Phase I" project that was implemented as a phase of the medical equipment upgrading project of provincial hospitals (77 places) located throughout the nation under the hospital service development plan of the national health plan being promoted by the Department of Health. In "Phase I", medical equipment was upgraded in 26 provincial hospitals in which priority of need for improvement was comparatively high. Plans are now being advanced for upgrading of medical equipment in 32 provincial hospitals that still have high priority. Plans are now being advanced on improving the remaining provincial hospitals and thus complete the overall project. In this plan, efforts will be made to procure equipment and materials that are essential for basic medical activities such as diagnostic devices, surgery devices, obstetrics and gynecological devices, pediatric devices, and ambulances that have become superannuated and are in unusable state in the 32 provincial hospitals with the aim of reviving medical functions of each facility or, in other words, providing high quality medical service. Plans are also to procure repair and maintenance tools for medical equipment for the hospital maintenance section of the Department of Health that is in charge of maintenance and repairs of hospital equipment. In addition to the maintenance and repair of medical equipment purchased in this project, repair and maintenance service will be offered on equipment installed in all public medical facilities.

CHAPTER V BASIC DESIGN

CHAPTER 5 -- BASIC DESIGN

5-1. Design Policy

The aim of this project is to strengthen and improve area medical service by reviving and improving medical activity functions and resolving problems of the medical equipment at the respective facilities by confirming existing problems of the proposed hospitals at 32 places that are the object of this project. The following will be considered the basic policy in carrying out this basic design.

(1) Common Design Policy

- 1) The policy shall be planned principally in relation to equipment that must be procured on an emergency basis in each hospital.
- 2) Adequate considerations are required on planned equipment that relate to existing equipment of the hospitals that are the object of this project.
- 3) Equipment, materials and labor that are procurable at the site should be employed to the maximum to enhance maintenance after completion of the project.
- 4) Equipment to be procured shall match the technical level of those engaged in medical work in the proposed hospitals of this project, and can also be maintained with the operation, maintenance budget.
- 5) For equipment requiring installation, plan shall be made only those on which the place of installation and space can be confirmed (on photo or drawing).
- 6) The installation work shall be implemented efficiently within a short period of time so that there will be no disturbance to medical and related duties of the hospitals.

(2) Design Policy of each Hospital

Although all proposed hospitals of this project may be considered facilities to be in accord with the level of provincial hospitals, great difference may be observed among facilities that are located to a certain extent in the outskirts of cities and small scale facilities on islands. Taking area differences into consideration in selection

and layout plan of equipment, efforts will be made to advance this undertaking effectively by establishing plans in line with the actual state of the facilities by observing the scope and medical level of facilities as shown in Table II-1, II-2 and IV-2, object population from Table III-1. Although the Department of Health has classified the proposed hospitals into Class A and Class B, they are further divided into five classes in this basic design and designing conducted in accordance with the role and capability of each hospital.

A standard classification of hospitals is shown in the following Table V-1. Although there are various methods of setting classification standards of hospitals, the standards used here are the five types in general use consisting of the number of out-patients, number of in-patients, number of beds, number of physicians and the beneficiary population. Fulfillment of three or more of the foregoing standards was used as a condition of classification.

Designing of the classified proposed hospitals of this project will be conducted with the following basic policies.

Table V-1 CLASSIFICATION OF PROPOSED HOSPITALS

| Classifi- cation | Nos. of Out-patient (year) | Nos. of In-patient (year) | Nos. of Bed | Nos. of Doctor | Benefiting Population (Thousand) | Nos. of Proposed Hospitals |
|---------------------|----------------------------------|---------------------------------|----------------------|--------------------|--|----------------------------------|
| A-1 | 55,000 more | 8,000 more | 150 more | 40 more | 500 more | 4 |
| A-2 | 55,000 less 35,000 more | 8,000 less 5,000 more | 150 less 100 more | 40 less 20 more | 400 more | 13 |
| A-3 | 35,000 less 20,000 more | 5,000 less 3,000 more | 100 less 75 more | 20 less 15 more | 200 more | 8 |
| B-1 | 20,000 less 10,000 more | 3,000 less 2,000 more | 75 less 50 more | 15 less 10 more | 150 more | 6 |
| B-2 | 10,000 less | 2,000 less | 50 less | 10 less | 150 more | 1 |

Class A-1: These are considered the highest class medical facilities in the area and priority will be placed on providing equipment to meet with tertiary medical service.

Proposed hospitals:

- Nueva Vizcaya Provincial Hospital
- Bulacan Provincial Hospital
- Eulogio Rodriguez Sr. Memorial Hospital
- Anders Bonifacio Memorial Hospital

Class A-2: These are considered average provincial hospitals and will be provided with equipment required to offer secondary and tertiary medical service.

Proposed hospitals:

- Ilocos Norte Provincial Hospital
- Gabriela Silang General Hospital
- Pampanga Provincial Hospital
- Mindoro Provincial Hospital
- Camarines Norte Provincial Hospital
- Eastern Bicol Medical Center
- Masbate Provincial Hospital
- Dr. Rafael Tombokon Memorial Hospital
- Delegate Angel Salazar Memorial Hospital
- Northern Samar Provincial Hospital
- Western Samar Provincial Hospital
- Agusan Del Sur Provincial Hospital
- Iligan City District Hospital

Class A-3: These are medical facilities of small and medium scale among provincial hospitals. Priority will be placed on providing equipment necessary for secondary medical service.

Proposed hospitals:

- Abra Provincial Hospital
- Aparri Provincial Hospital
- Marinduque Provincial Hospital

- Mindoro Occidental Provincial Hospital
- Congressman Maximino Garcia Memorial Hospital
- Zamboanga Del Sur Provincial Hospital
- Davao Oriental Provincial Hospital
- Lanao Del Norte Provincial Hospital

Class B-1: These are medical facilities that principally offer secondary medical service and plans are established mainly for group diagnosis devices rather than treating devices.

Proposed hospitals:

- Batanes Provincial Hospital
- Batangas Provincial Hospital
- Aurora Memorial Hospital
- Puerto Princesa Provincial Hospital
- Romblon Provincial Hospital
- Maguindanao Provincial Hospital

Class B-2: Although these are small scale medical facilities, they will be provided with necessary equipment mainly for primary and secondary medical treatment with partial tertiary treatment taking into consideration its importance in the area.

Proposed hospitals:

- Guimaras District Hospital

5-2. Study of Design Condition

In addition to the basic design policy explained in the foregoing, basic design will be established after studying the following various conditions.

(1) Condition of the Demand Aspect

1. In addition to equipment essential for improving secondary and tertiary medical service along the health and medical plan being promoted by the Government of Philippines, the project are also being established for basic medical equipment necessary for primary medical service.

2. Considering the number of beds of the hospital, the kinds of diagnosis and treatments, service area, beneficiary population, the number of equipment are determined.

3. Equipment plan is established to enable providing effective medical services such as preventive diagnosis and treatment of patients against infectious diseases and circulatory organ diseases that are the principal cause of deaths in the Philippines.

4. The equipment in the proposed hospitals that can no longer use to provide adequate medical service due to irreparable faults and deterioration of functions due to superannuating are replaced, and also replenish equipment that are numerically deficient due to increase in beneficiary population.

5. The principal equipment to be procured shall be the ones of which maintenance, supply of repair parts and consumables can be met by the agent in the Philippines.

(2) Technical Condition

1. The equipment of this project shall be the ones which do not require any special high level techniques in operation and maintenance. As a basic rule, the equipment of the same level as those which have been used in the proposed hospitals, or equipment of a level that the present medical technicians of the hospital are adequately capable of handling.

2. The planned equipment must be of a comparatively simple structure that is sturdy and resistant to breakdowns, and must be of a type that can be met with to a certain extent with the present medical equipment maintenance level of the Philippines.
3. The medical technicians have acquired general diagnostic methods but lack skills such as advanced diagnosis, confirmation of the diseased part and specifics of ailment because of insufficient literature cited in relation to hospital diagnostic methods. This is especially true in the case of X-ray equipment and ultrasound equipment on which image reading methods are advancing rapidly with development of new technology. This project are to procure reference literature such as diagnosis technology guide for these equipment in this basic design to improve the technical level of the medical technicians in charge and thus promote effective use of the equipment.
4. Guidance on operation, inspection and maintenance will be given to the medical technician in charge and to the operator of the equipment at each hospital when installing the equipment.
5. Orientation with curriculum will be conducted by inviting physicians, technicians and maintenance personnel of each proposed hospital in an effort to broaden knowledge thoroughly on operation, inspection and maintenance, and on maintenance methods of the equipment.
6. With the exception of small medical items, three copies each of the English operating manual, instruction and maintenance manual will be prepared with one copy being distributed to the proposed hospitals, one copy to the Hospital Minatenance Service, DOH and the remaining copy to the Department of Health.
7. Sharp voltage fluctuations may cause malfunctions or break down of certain kinds of the medical equipment. Since the electric power situation in the Philippines is poor, voltage fluctuation of 20 to 30% are not uncommon. Although a voltage regulator will be provided where necessary when designing the equipment, equipment being capable of withstanding of voltage fluctuation will be planned.

(3) Natural condition

A outline of the natural conditions in the Philippines is as follows.

Latitude : 4°23' to 21°25' north latitude

Longitude : 116° to 126°30'

Average temperature : 27°C (Although the temperature remains fairly constant in the low plains all year round, the temperature difference is remarkable in the high-lands.)

Maximum temperature 33.3°C (January)

Minimum temperature 22.7°C (June)

Average Humidity : 81-85%

Annual rainfall : 1,250mm (at Zamboanga)-3,869mm(at Surigao)

Maximum rainfall month: 677mm (January, at Surigao)

Minimum rainfall month: 6mm (March, at Manila)

Since the natural environment of the Philippines is of a high temperature, high humidity tropical weather, the equipment planned shall be heat, moisture and dust resistant to be able to meet with this type of environment. Dew condensation due to high temperature and high humidity may be the cause of troubles in electronic medical equipment such as X-ray equipment and ultrasound equipment, and corrosion of the metal parts by dust also causes open circuits or short circuits. Internal environmental conditions will be improved by installing air conditioner for the medical equipment to avoid the foregoing types of faults.

(4) Conditions of Equipment Selection

The equipment will be selected taking the following matters into consideration based on the above mentioned demand and technical aspects.

1) Diagnosis equipment

X-ray equipment planned will be those capable of coping with diagnosis of patients with chest infectious diseases such as tuberculosis or pneumonia, and also diagnosis of ailments of the

digestive system. Ultrasound diagnosis equipment planned will be those that can be used in obstetrics for diagnosing abnormal pregnancy, malignant tumor of the organs and also diagnosis of diseases of the circulatory system.

2) Surgery equipment:

Operating tables, operating lights, anesthesia apparatus, suction unit and surgery unit of a level capable of coping with general celiotomy, thoracotomy and orthopedic operations will be planned. Surgery instruments shall be high quality sturdily constructed types only (Japan or European make) that can withstand long usage, and purchase of comparatively inexpensive lower quality shall be avoided.

3) Intensive care unit equipment:

Equipment planned will principally be those for post-operation patients and for patients with circulatory ailments.

4) Obstetric and gynecology equipment:

Equipment required for gynecological examination, obstetrical treatment, and infant nursing will be planned.

5) Ward equipment

Equipment necessary for routine medical service such as examination and treatment of in-patients will be selected.

6) Laboratory equipment

Equipment required for chemical blood analysis such as serum albumen and glucose, determination of blood type, and for disease diagnosis such as malaria and tuberculosis, and also equipment for water analysis for health control of the area residents will be planned.

7) Other equipment

Equipment essential for effective operation of the hospitals will be planned. Ambulances and community service cars will be of off-road specifications to provide service in highland and wet areas. From economical point of view, power generators shall be driven with inexpensive diesel fuel.

5-3. Basic Design

(1) Distribution Plan of Main Equipment

Taking into consideration of present condition of the proposed hospitals shown in Table II-2, present status of main equipment possessed at the proposed hospitals shown in Table II-3 and classification of the proposed hospitals shown in Table V-1, distribution plan of main equipment based on design policy mentioned in 5-1 "Design Policy" is as follows.

1) ABRA PROVINCIAL HOSPITAL.

No. of Beds: 100

Class: A-3

Code No.: I-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, others

OB GYN and Ward Equipment

- Obstetric Delivery Table
- Clinical Examination Table, Others

Operating Room Equipment

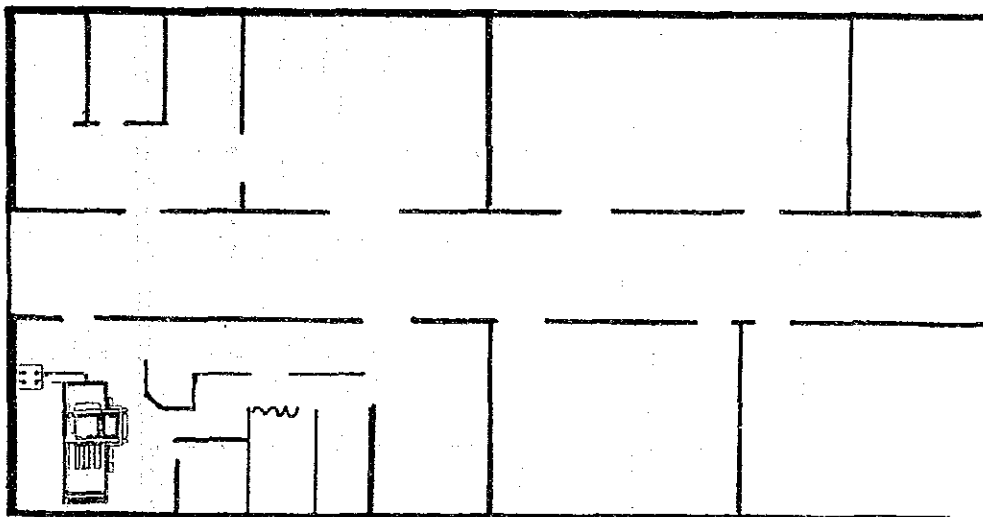
- Major Operating Light
- Major Operating Table

Laboratory Equipment, Miscellaneous

- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



2) ILOCOS NORTE PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: 1-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

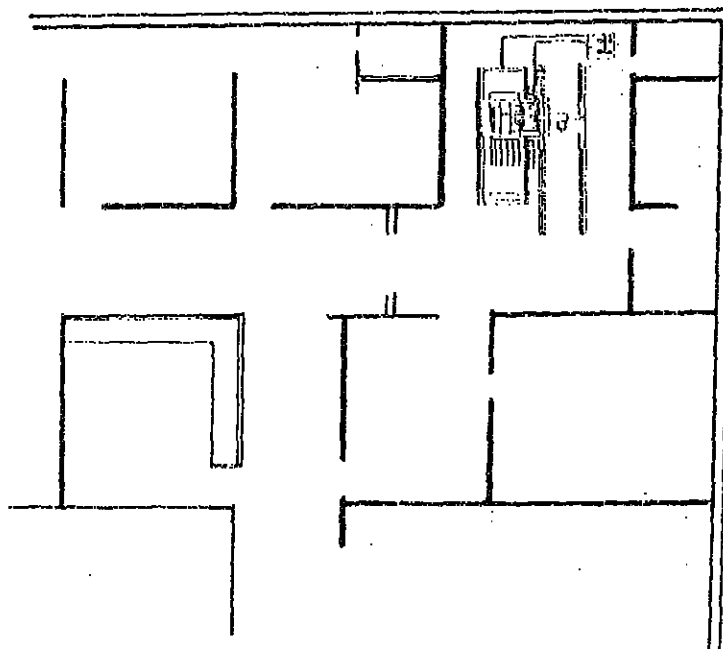
- Spectrophotometer
- Community Service Car
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



3) GABRIELA SILANG GENERAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: I-3

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

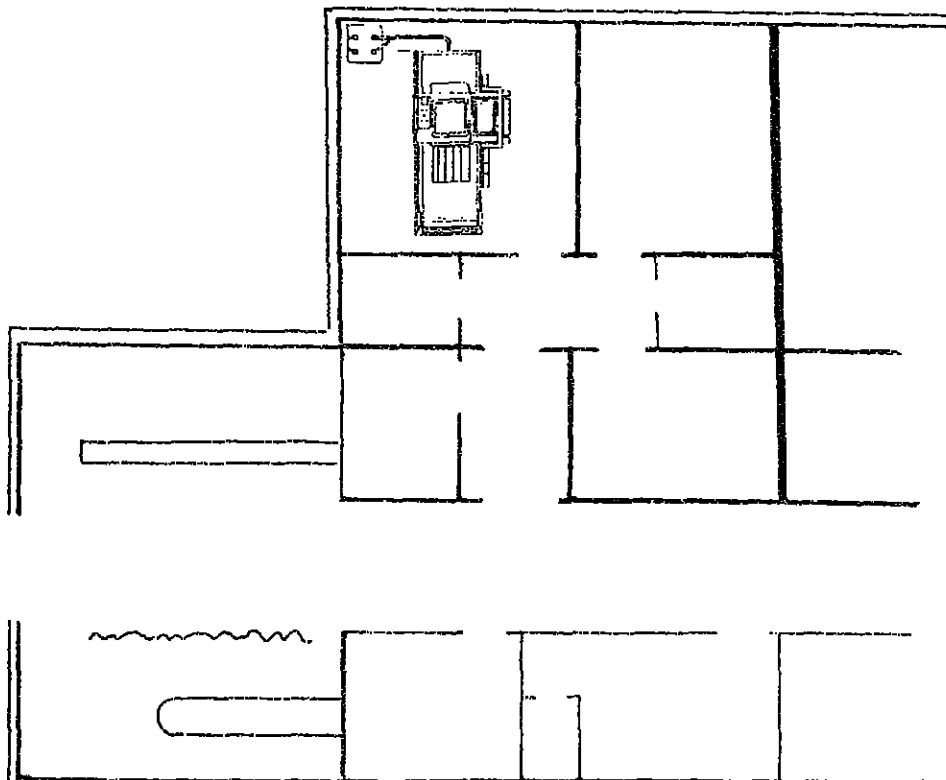
- Blood Bank Refrigerator
- Ambulance
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



4) NUEVA VIZCAYA PROVINCIAL HOSPITAL

No. of Beds: 200

Class: A-1

Code No.: II-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Ultrasound Scanner
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

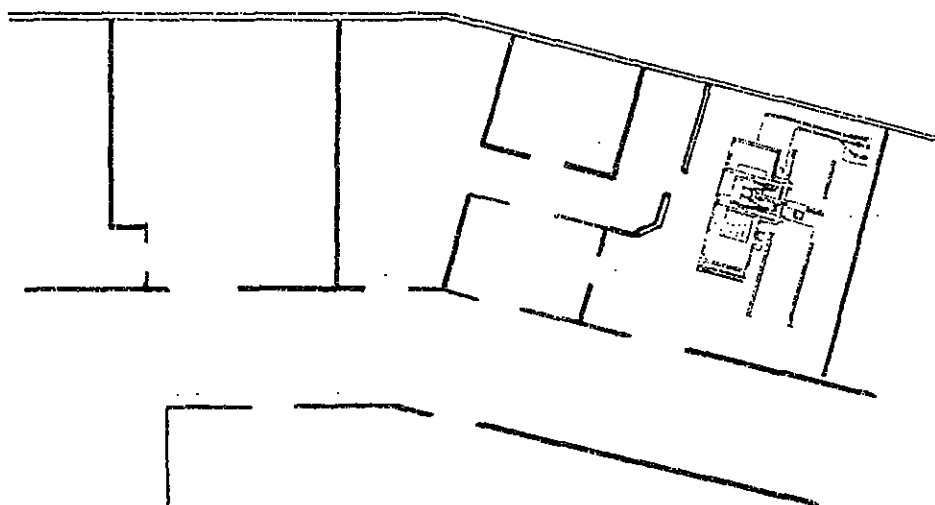
- Spectrophotometer
- Blood Bank Refrigerator
- Community Service Car
- High Pressure Sterilizer, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



5) APARRI PROVINCIAL HOSPITAL

No. of Beds: 50

Class: A-3

Code No.: II-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Obstetric Delivery Table
- Orthopedic Bed, Others

Operating Room Equipment

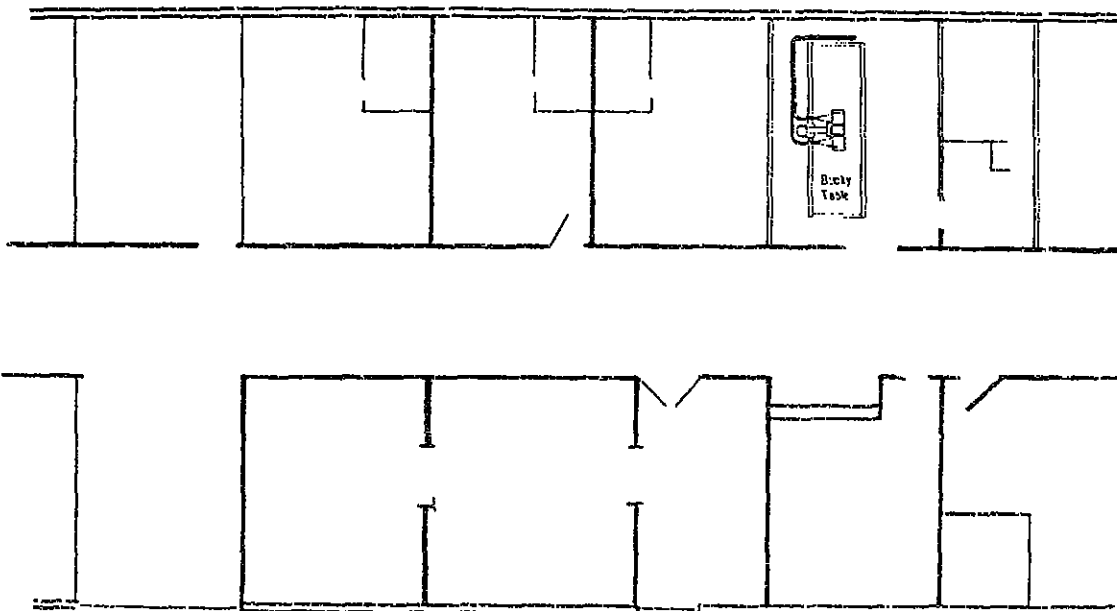
- Major Operating Light
- Anesthesia Apparatus
- Electro Surgical Unit, Others

Laboratory Equipment, Miscellaneous

- Blood Bank Refrigerator
- Community Service Car

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



6) BATANES PROVINCIAL HOSPITAL

No. of Beds: 75

Class: B-1

Code No.: II-3

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table

Operating Room Equipment

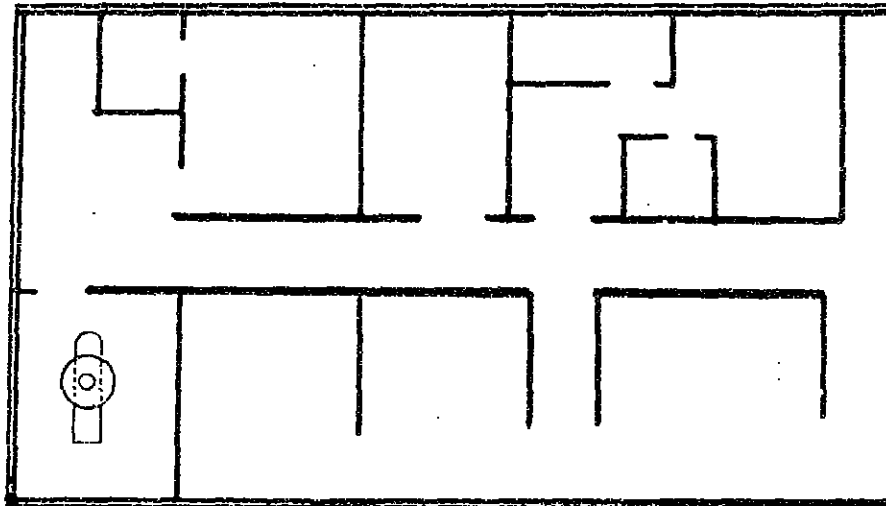
- Major Operating Light
- Anesthesia Apparatus
- Electro Surgical Unit, Others

Laboratory Equipment, Miscellaneous

- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Major Operating Light



7) BULACAN PROVINCIAL HOSPITAL

No. of Beds: 200

Class: A-1

Code No.: III-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Ultrasound Scanner
- Electrocardiograph
- Gastrointestinal Fiberscope, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

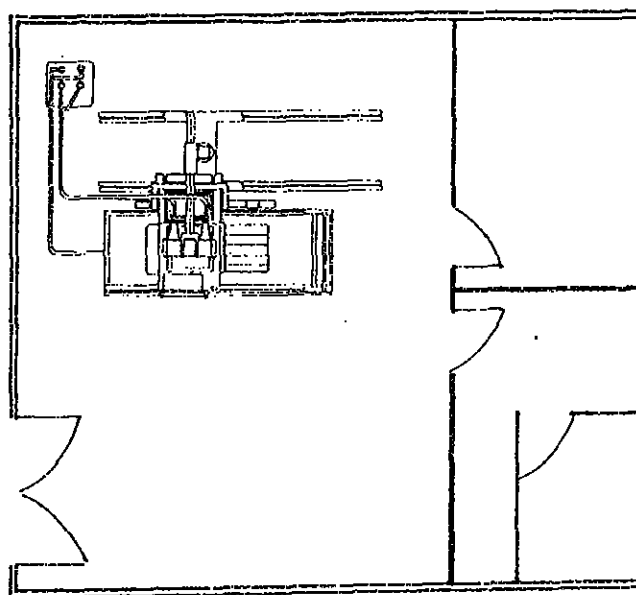
- Spectrophotometer
- Blood Bank Refrigerator
- Ambulance
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



8) PAMPANGA PROVINCIAL HOSPITAL

No. of Beds: 150

Class: A-2

Code No.: III-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

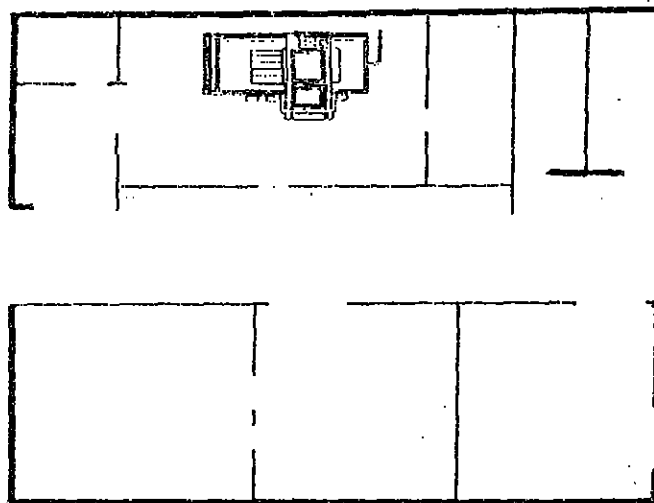
- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Blood Bank Refrigerator
- Ambulance
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



9) EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL

No. of Beds: 100

Class: A-1

Code No.: N.C.R.-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Ultrasound Scanner
- Electrocardiograph
- Gastrointestinal Fiberscope, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Examination Lamp
- Orthopedic Bed, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

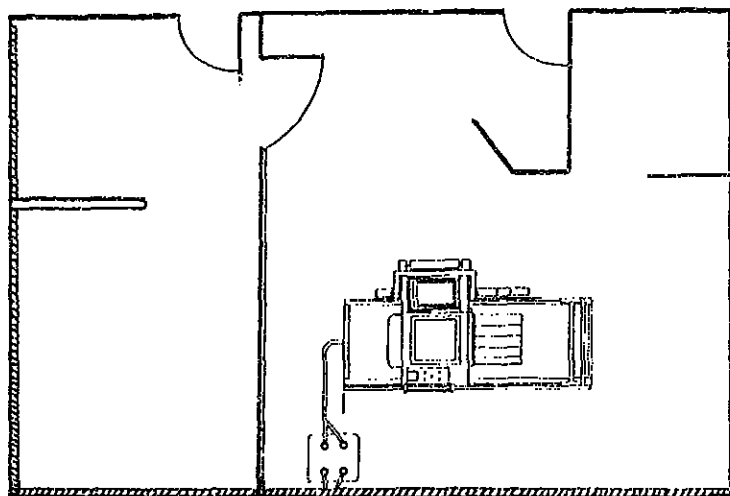
- Spectrophotometer
- Blood Bank Refrigerator
- Ambulance
- Community Service Car

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed
- Critical Care Ventilator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



10) MARINDUQUE PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-3

Code No.: IV-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

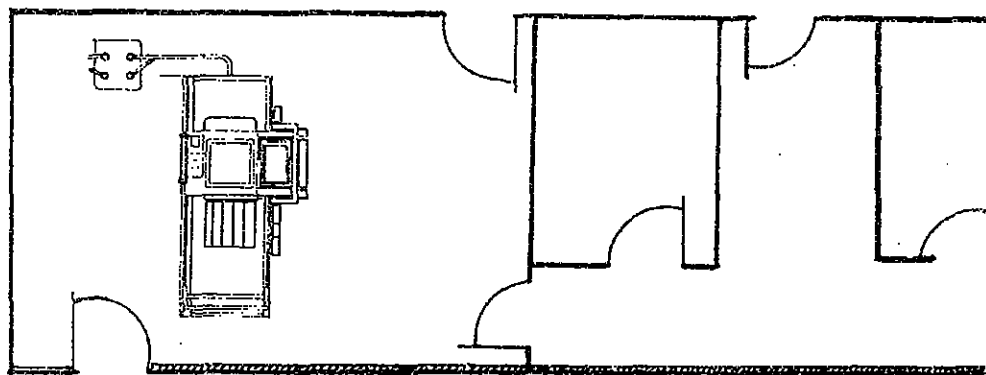
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Community Service Car

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



11) ANDERS BONIFACIO MEMORIAL HOSPITAL

No. of Beds: 150

Class: A-1

Code No.: IV-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Ultrasound Scanner
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

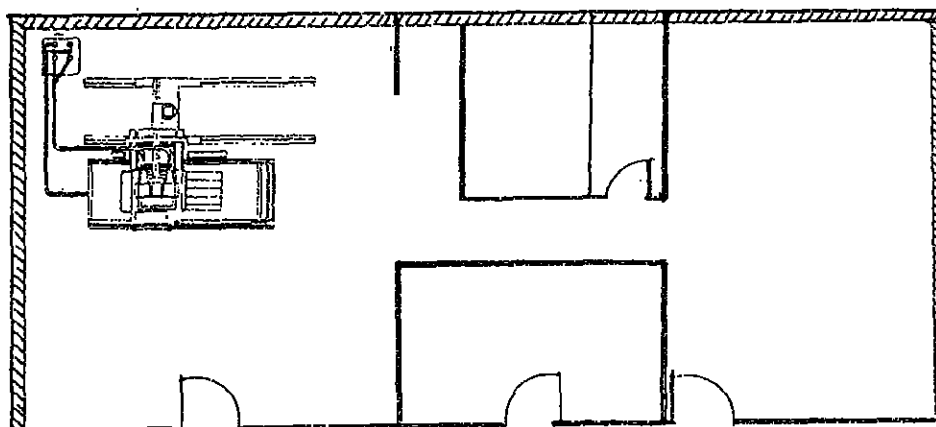
- Spectrophotometer
- Community Service Car
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



12) MINDORO OCCIDENTAL PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-3

Code No.: IV-3

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

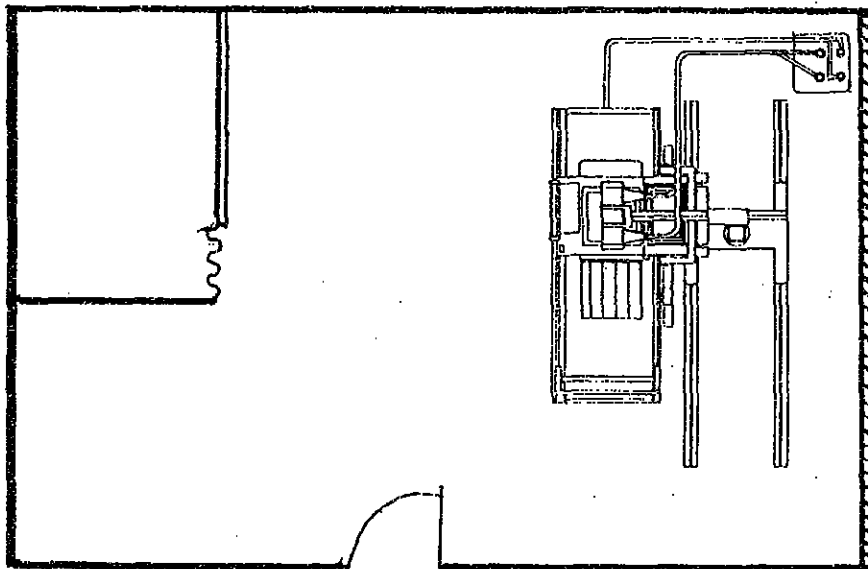
- Major Operating Light
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Blood Bank Refrigerator
- Ambulance
- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



13) BATANGAS PROVINCIAL HOSPITAL

No. of Beds: 50

Class: B-1

Code No.: IV-4

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

Operating Room Equipment

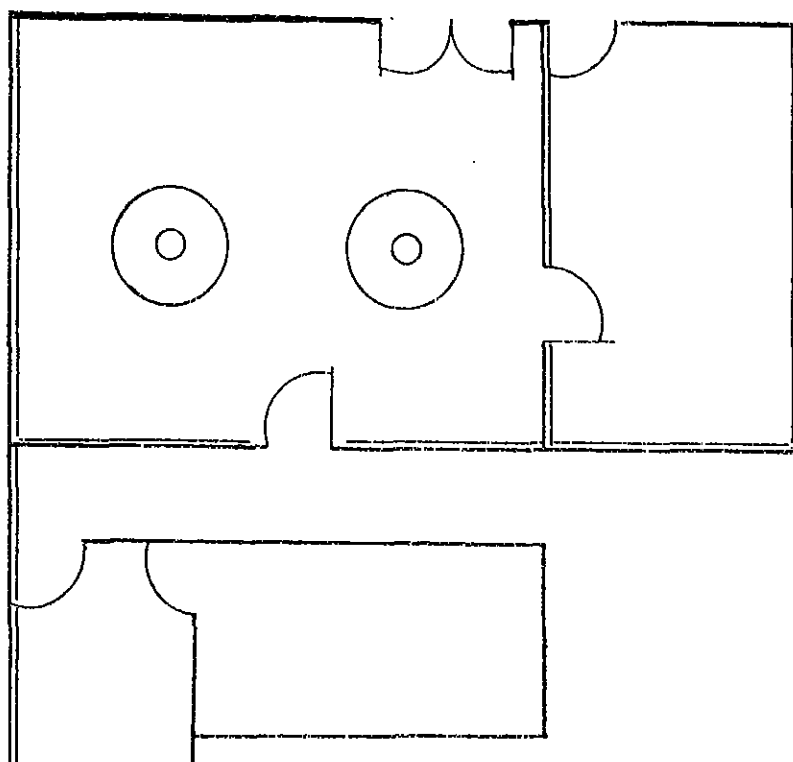
- Major Operating Light
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Major Operating Light



14) MINDORO PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: IV-5

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

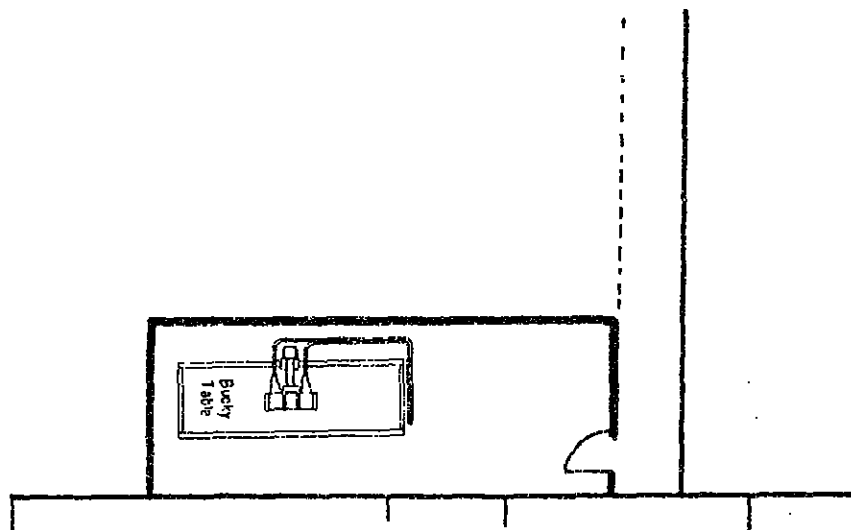
- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Spectrophotometer
- Blood Bank Refrigerator
- Community Service Car

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



15) AURORA MEMORIAL HOSPITAL

No. of Beds: 25

Class: B-1

Code No.: IV-6

A. Main Equipment

Diagnosis Equipment

- diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GNY and Ward Equipment

- Incubator
- Clinical Examination Table, Others

Operating Room Equipment

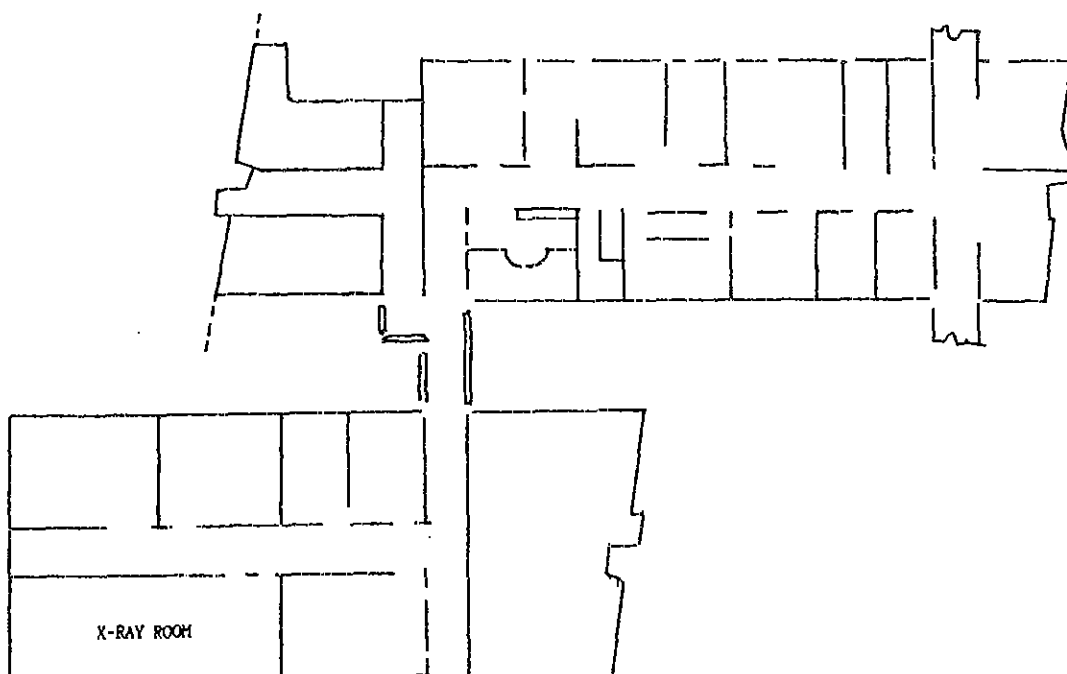
- Major Operating Light

Laboratory Equipment, Miscellaneous

- Ambulance
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



16) PUERTO PRINCESA PROVINCIAL HOSPITAL

No. of Beds: 50

Class: B-1

Code No.: IV-7

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table, Others

Laboratory Equipment, Miscellaneous

- Generator, Others

B. Layout of Main Equipment

No particular equipment which requires installation works

17) ROMBLON PROVINCIAL HOSPITAL

No. of Beds: 100

Class: B-1

Code No.: IV-8

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

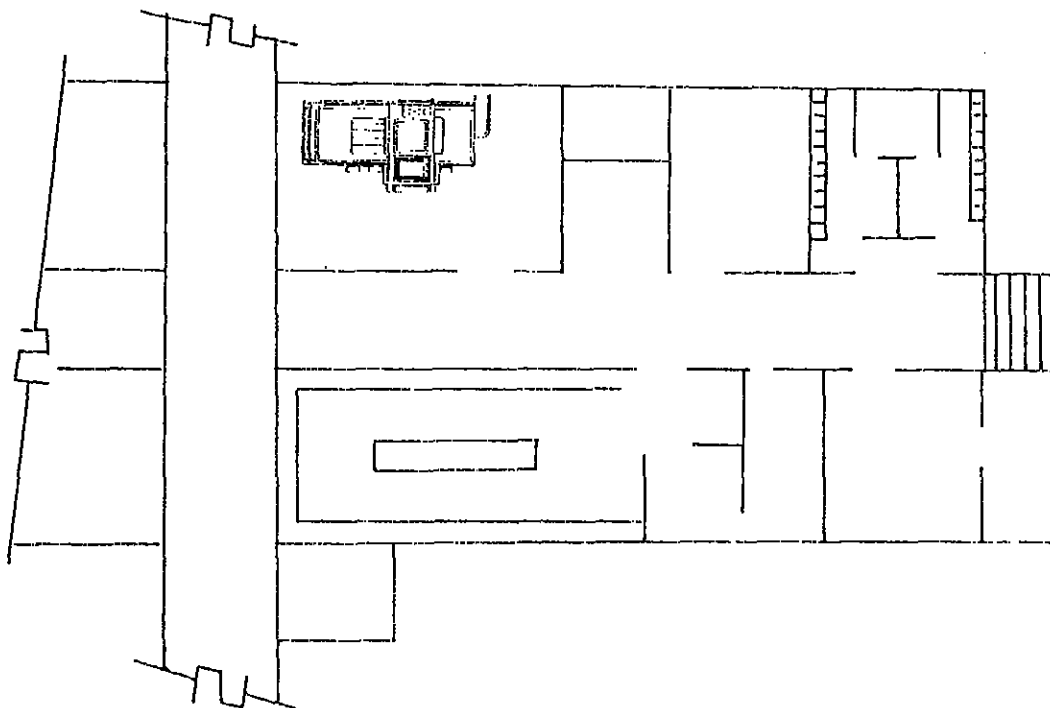
- Clinical Examination Table, Others

Laboratory Equipment, Miscellaneous

- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



18) CANARINES NORTE PROVINCIAL HOSPITAL

No. of Beds: 150

Class: A-2

Code No.: V-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table
- Examination Lamp
- Orthopedic Bed, Others

Operating Room Equipment

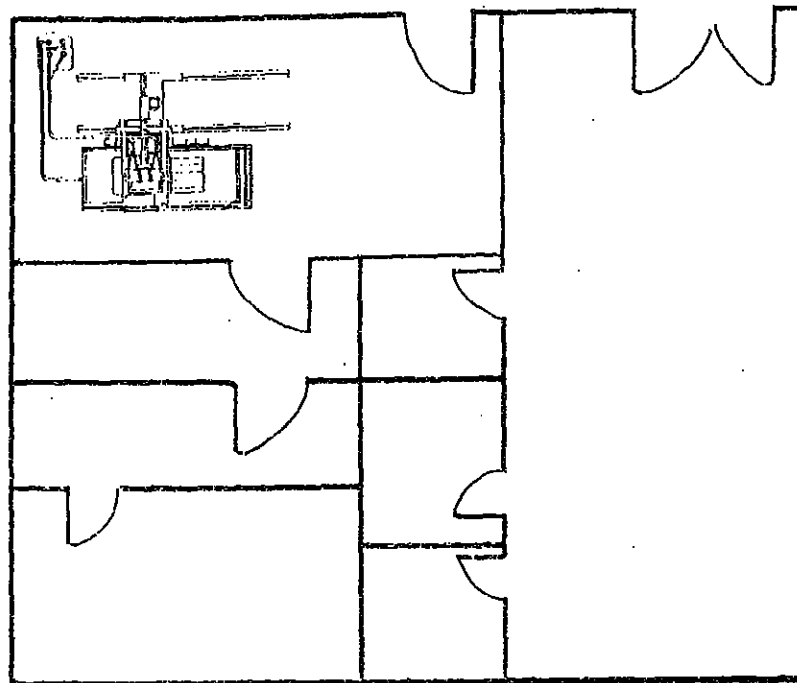
- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit, Others

Laboratory Equipment, Miscellaneous

- Ambulance
- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



19) EASTERN BICOL MEDICAL CENTER

No. of Beds: 200

Class: A-2

Code No.: V-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Ultrasound Scanner
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Orthopedic Bed, Others

Operating Room Equipment

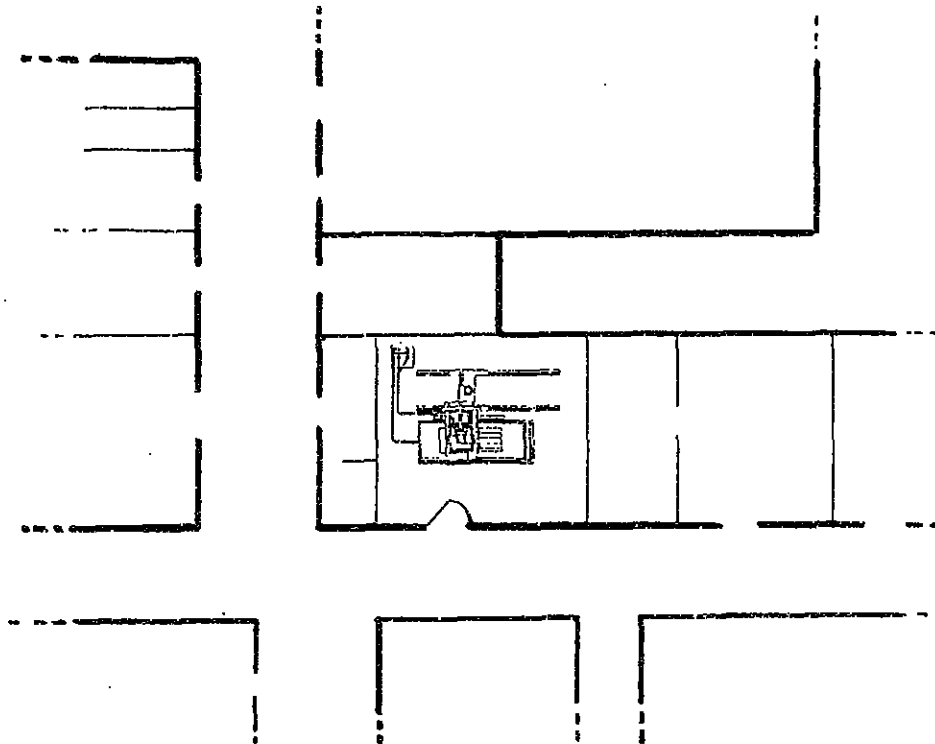
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Spectrophotometer
- Blood Bank Refrigerator
- Community Service Car

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



20) MASBATE PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: V-3

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table, Others

Operating Room Equipment

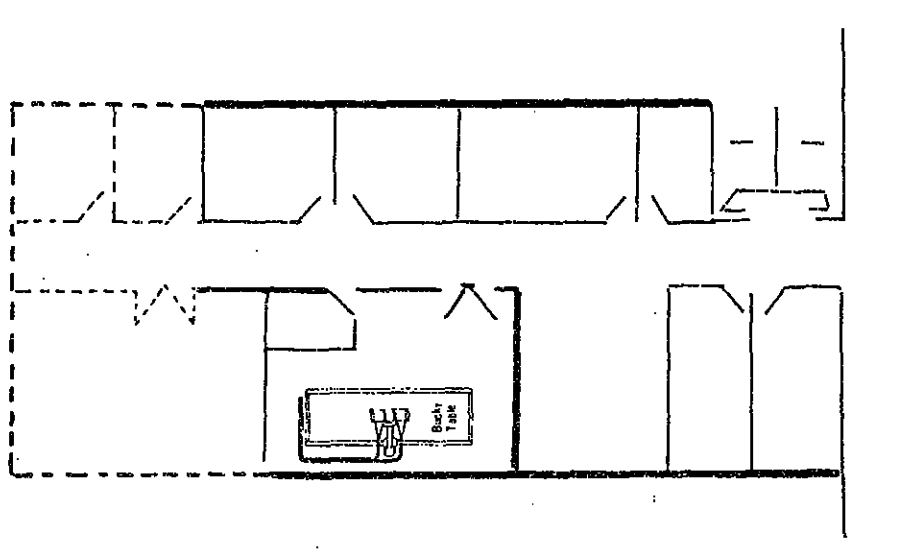
- Major Operating Light
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

- Spectrophotometer
- Ambulance
- Community Service Car
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



21) DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: VI-1

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

Operating Room Equipment

- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table, Others

Laboratory Equipment, Miscellaneous

- Community Service Car
- Generator, Others

B. Layout of Main Equipment

No particular equipment which requires installation work

22) DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: VI-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit

Laboratory Equipment, Miscellaneous

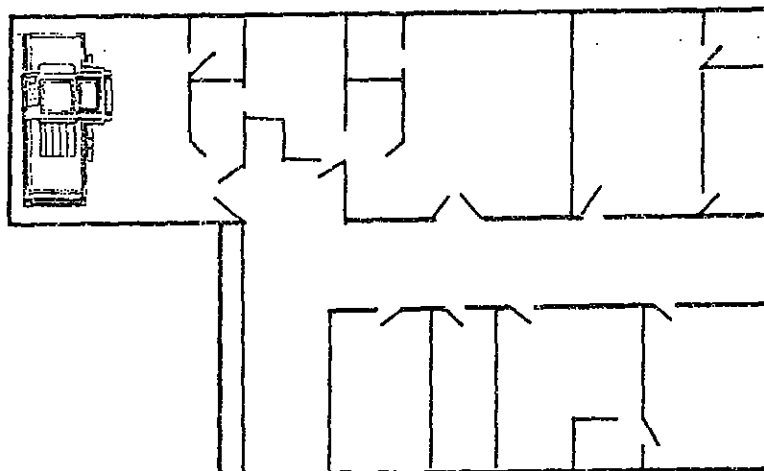
- Spectrophotometer.
- Ambulance
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



23) GUIMARAS DISTRICT HOSPITAL

No.of Beds: 25

Class: B-2

Code No.: VI-3

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

Laboratory Equipment, Miscellaneous

- Community Service Car
- Generator, Others

B. Layout of Main Equipment

No particular equipment which requires installation work

24) CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL

No. of Beds: 75

Class: A-3

Code No.: VII-1

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

Laboratory Equipment, Miscellaneous

- Blood Bank Refrigerator
- Ambulance
- Generator, Others

B. Layout of Main Equipment

No particular equipment which requires installation work

25) NORTHERN SAMAR PROVINCIAL HOSPITAL

No.of Beds: 100

Class: A-2

Code No.: VIII-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table
- Orthopedic Bed, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

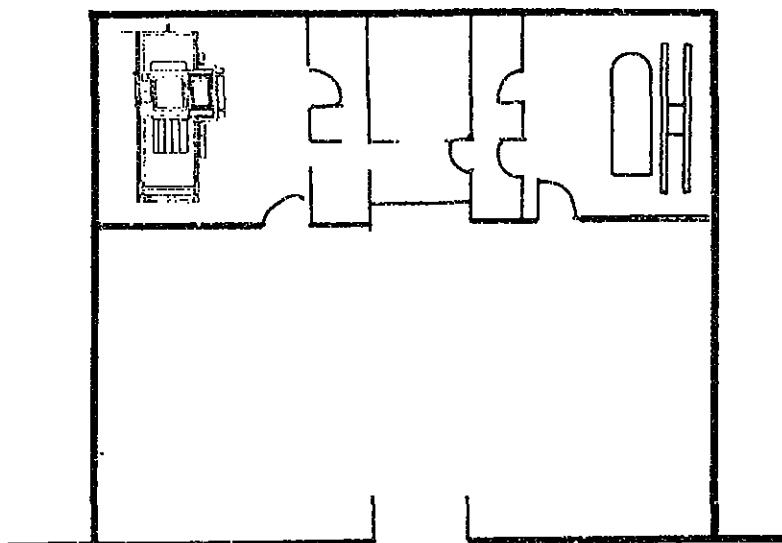
- Spectrophotometer
- Blood Bank Refrigerator
- Ambulance
- Community Service Car
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



26) WESTERN SAMAR PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: VIII-2

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph

OB GYN and Ward Equipment

- Clinical Examination Table, Others

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

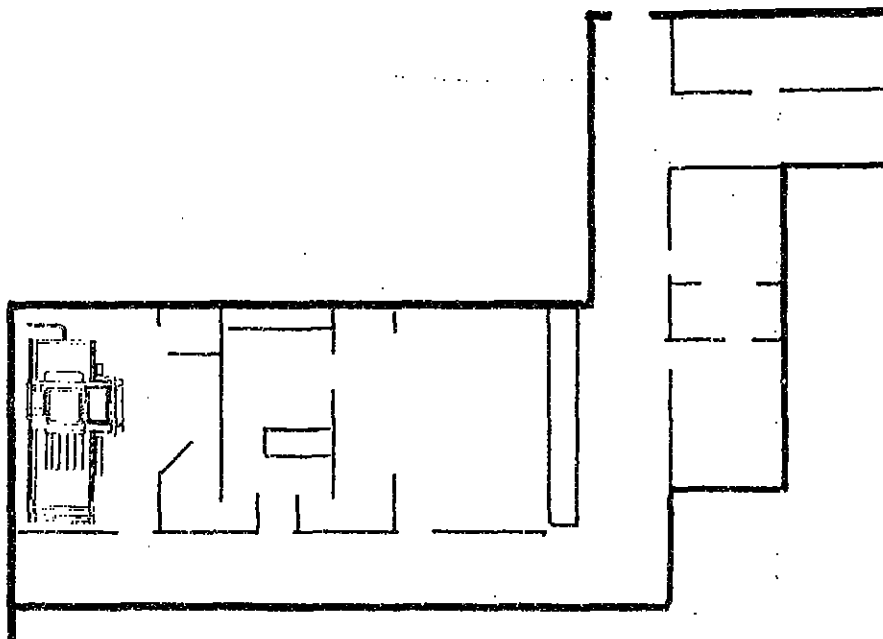
- Spectrophotometer
- Blood Bank Refrigerator
- Ambulance
- Community Service Car

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



27) ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL

No. of Beds: 50

Class: A-3

Code No.: IX-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

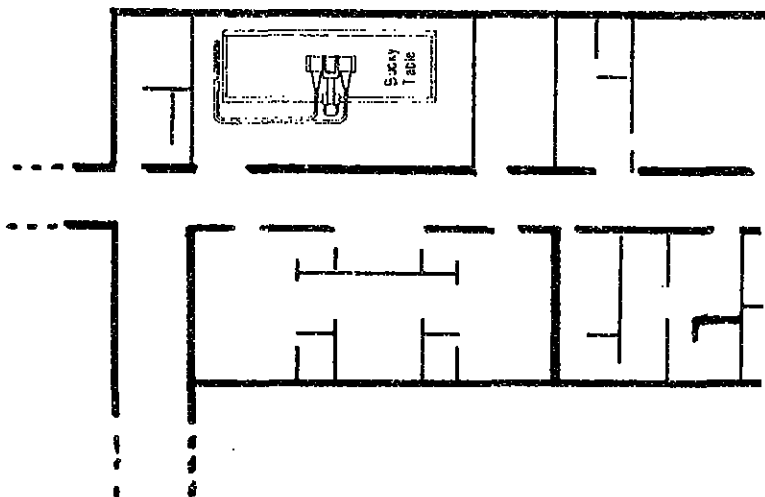
- Clinical Examination Table, Others

Laboratory Equipment, Miscellaneous

- Ambulance, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



28) AGUSAN DEL SUR PROVINCIAL HOSPITAL

No. of Beds: 100.

Class: A-2

Code No.: X-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Incubator
- Clinical Examination Table

Operating Room Equipment

- Anesthesia Apparatus
- Electro Surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

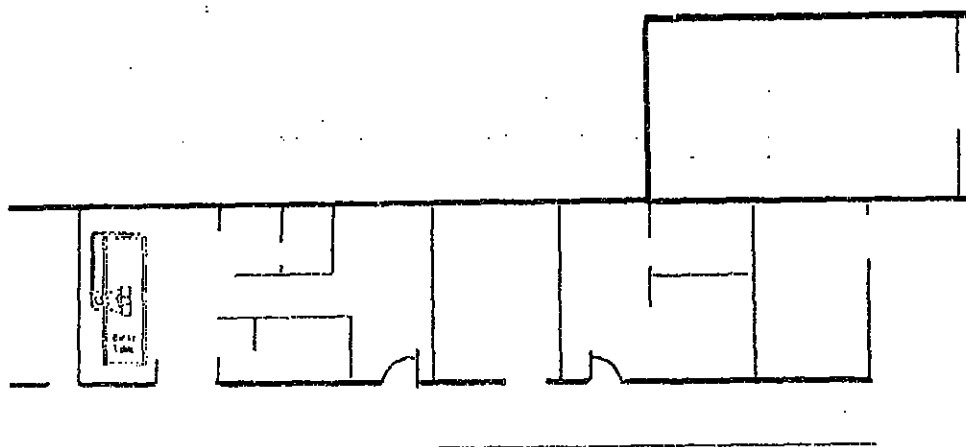
- Ambulance
- Community Service Car
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



29) DAVAO ORIENTAL PROVINCIAL HOSPITAL

No. of Beds: 100

Class: A-3

Code No.: XI-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

Operating Room Equipment

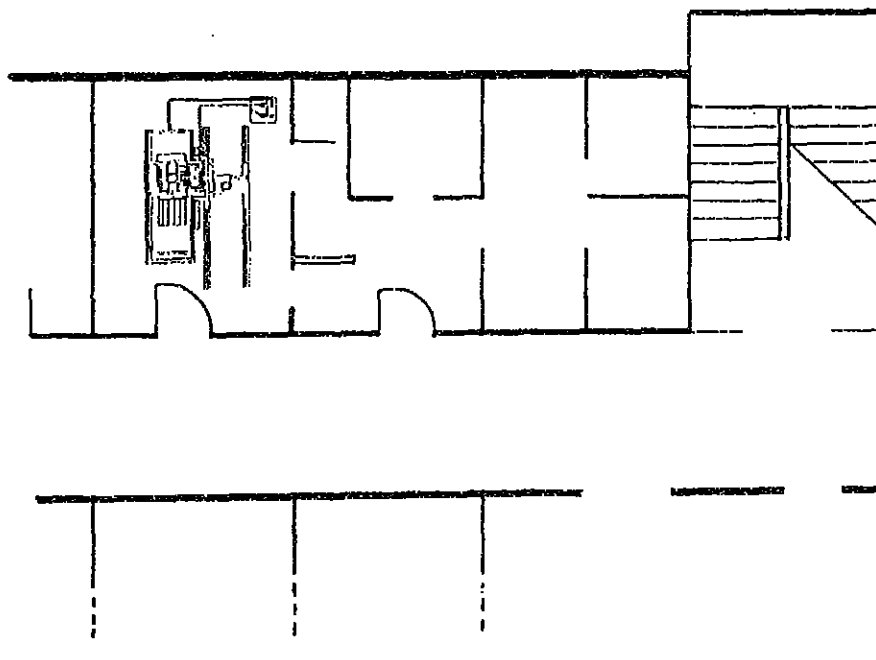
- Major Operating Light
- Major Operating Table, Others

Laboratory Equipment, Miscellaneous

- Ambulance
- Generator, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



30) ILIGAN CITY DISTRICT HOSPITAL

No. of Beds: 100

Class: A-2

Code No.: XII-1

A. Main Equipment

Diagnosis Equipment

- Ultrasound Scanner
- Electrocardiograph, Others

OB GYN and Ward Equipment

- Clinical Examination Table

Operating Room Equipment

- Major Operating Light
- Major Operating Table
- Anesthesia Apparatus
- Electro surgical Unit
- Major Surgical Set, Others

Laboratory Equipment, Miscellaneous

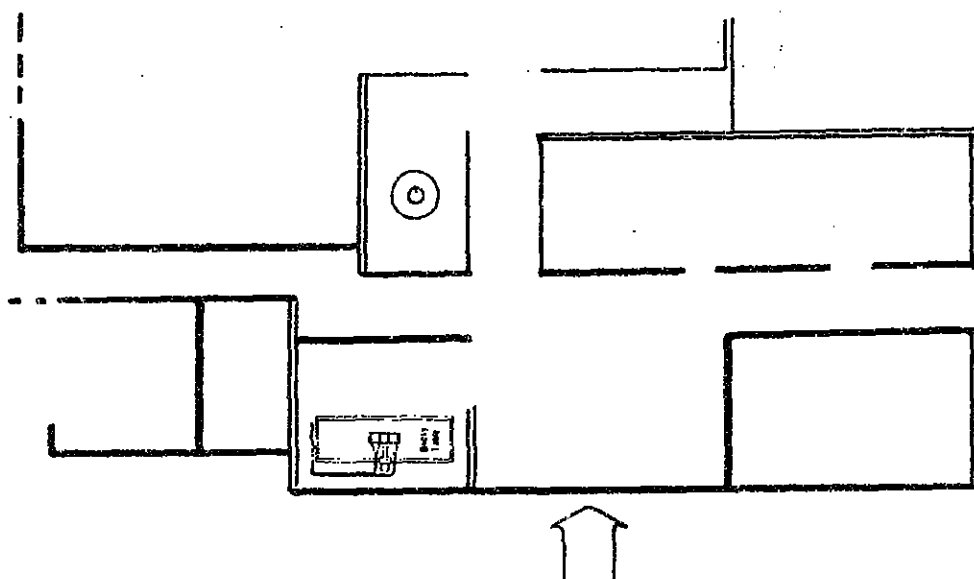
- Spectrophotometer
- Community Service Car
- Generator, Others

Intensive Care Unit Equipment

- Bedside Patient Monitor
- I.C.U. Bed, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



31) LANA DEL NORTE PROVINCIAL HOSPITAL

No. of Beds: 75

Class: A-3

Code No.: XII-1

A. Main Equipment

Diagnosis Equipment

- Diagnostic X-Ray Equipment
- Electrocardiograph, Others

OB GYN and Ward Equipment

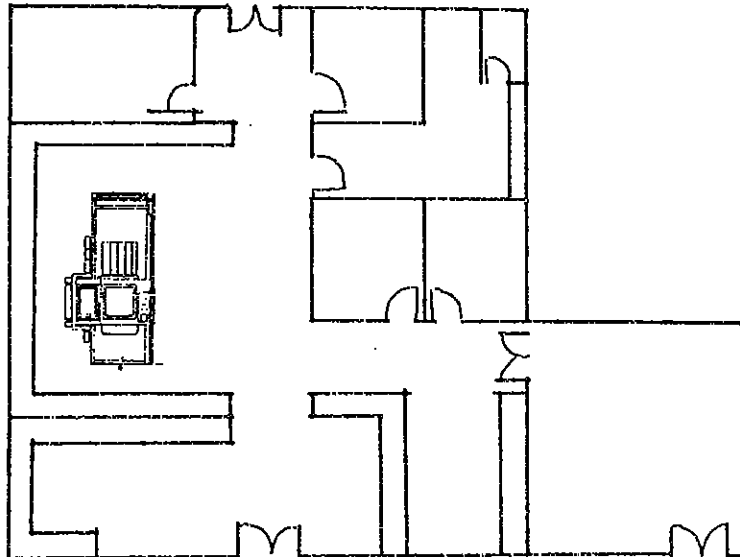
- Clinical Examination Table, Others

Laboratory Equipment, Miscellaneous

- Spectrophotometer
- Ambulance, Others

B. Layout of Main Equipment

Diagnostic X-Ray Equipment



32) MAGUINDANAO PROVINCIAL HOSPITAL

No. of Beds: 50

Class: B-1

Code No.: XII-3

A. Main Equipment

Diagnosis Equipment

- Electrocardiograph, Others

Laboratory Equipment, Miscellaneous

- Community Service Car

B. Layout of Main Equipment

No particular equipment which requires installation works

33) HOSPITAL MAINTENANCE SERVICE

A. Main Equipment

Other Equipment

- Community Service Car

B. Layout of Main Equipment

No particular equipment which requires installation works

(2) Equipment Plan

The appropriate scale of equipment to be supplied based on the above-mentioned basic design policy and conditions will be 70 items of which name and main specifications are described in the table V-2(1)~(4).

| <u>Name of Equipment</u> | <u>Q'ty.</u> | <u>Specifications</u> |
|--|--------------|---|
| 1. Diagnosis Equipment | | |
| 1-1 X-Ray Equipment, 500mA 150kV | 22 | 500mA, 150KV, 2-tube system with fluoroscopy radiographic table |
| 1-2 X-ray equipment, 300mA 150kV | 2 | 300mA, 150KV, 1-tube system with Buckey table |
| 1-3 Airconditioner for X-Ray Room | 24 | 1500Kcal, window type |
| 1-4 X-Ray Film Processing Tank | 27 | 30 liter, plastic tank, three division tank |
| 1-5 X-Ray Accessories Set | 26 | film viewer, cassette, grid, etc. |
| 1-6 Ultrasound Scanner | 6 | linear/sector type, display size 5~7 inch with table |
| 1-7 Airconditioner for Ultrasound Scanner Room | 6 | 1500Kcal, window type |
| 1-8 Electrocardiograph 1-channel | 38 | 1-channel, with isolation device and marker |
| 1-9 Proctosigmoidoscope | 5 | with light source, fiber type |
| 1-10 Gastrointestintal Fiberscope | 1 | with light source, fiber type |
| 1-11 Broncho Fiberscope | 1 | with light source & trolley, fiber type |
| 1-12 Cystoscope | 1 | with light source, optics type |
| 1-13 Diagnostic Set | 44 | Ophthalmometer, otoscope, Layngoscope etc. |
| 1-14 Sphygmomanometer, Stand-type | 55 | mercury type, 300m, with caster |
| 1-15 Sphygmomanometer, Table-Top, | 74 | mercury type, 300m, portable type |
| 1-16 Stethoscope | 110 | dual type |
| 2. Operating Room Equipment | | |
| 2-1 Major Operating Light | 18 | ceiling support type, 10~12 bulbs |
| 2-2 Minor Operating Light | 13 | ceiling support type, 4~6 bulbs |
| 2-3 Mobile Operating Light | 18 | stand type, 4~6 bulbs with battery |
| 2-4 Major Operating Table | 19 | universal type, manual & hydraulic type |
| 2-5 Minor Operating Table | 9 | simple type, manual & hydraulic type |
| 2-6 Orthopedic Surgery Table | 2 | manual & hydraulic type |

| <u>Name of Equipment</u> | <u>Q'ty.</u> | <u>Specifications</u> |
|--|--------------|--|
| 2-7 Gynecological Surgery Table | 4 | manual & hydraulic type |
| 2-8 Airconditioner for Major O.R. | 26 | window type, 1500Kcal |
| 2-9 Airconditioner for Gyn. O.R. | 4 | window type, 1500Kcal |
| 2-10 Airconditioner for Minor O.R. | 10 | window type, 1500Kcal |
| 2-11 Anesthesia Apparatus | 20 | O ₂ & N ₂ O gas type, flothane vaporizer |
| 2-12 Electro-Surgical Unit | 20 | monopolar/bipolar function, cutting & coagulation |
| 2-13 Mobile Suction Unit(Heavy duty) | 30 | 3000cc, rotary type |
| 2-14 Portable Suction Unit | 35 | 500cc, diaphragm |
| 2-15 High Speed Sterilizer (Table top) | 32 | capacity 0.3m ³ , stainless, electrical type |
| 2-16 Endotracheal Set | 26 | Laryngoscope, endtracheal tube with cuff |
| 2-17 Manual Resuscitator Set | 39 | for pediatric, infant and adult |
| 2-18 Major Surgical Instrument Set | 20 | 26 items instrument |
| 2-19 Small Operating Instrument Set | 11 | 14 items including spot light, examination table |
| 2-20 Appendectomy Instrument Set | 26 | 19 items including sewing needle & case |
| 2-21 Emergency Tracheotomy Instrument set | 5 | 2 items including sewing needle case |
| 2-22 Pediatric Surgical Instrument Set | 2 | 25 items including sewing needle & case |
| 2-23 Cesarean Incision Set | 15 | 33 items including sewing needle & case |
| 2-24 Instrument Table | 31 | 2 shelves box type with caster |
| 3. I.C.U. Equipment | | |
| 3-1 Bedside Patient Monitor | 16 | ECG, pulse recorder |
| 3-2 I.C.U. Bed | 16 | gatch bed with two crank operation |
| 3-3 Defibrillator | 14 | portable with ECG recorder |
| 3-4 Critical Care Ventilator | 1 | portable type, electric operated |
| 3-5 Portable Suction Unit | 30 | diaphragm, single bottle type |
| 3-6 Manual Resuscitator | 31 | with manual suction pump |
| 3-7 Air Conditioner for ICU | 12 | window type, 1500Kcal |
| 4. OB & GNY Equipment(Including Neonatals) | | |
| 4-1 Infant Incubator | 12 | Manual thermo-control type |
| 4-2 Phototherapy Unit | 5 | 4~6 pcs. fluorescent light |
| 4-3 Jacson Rees Resusci Bag | 16 | equipped with a connector to Anesthesia |
| 4-4 Oxygen Tent | 1 | head box type with temp. control |
| 4-5 Clinical Examination Table | 22 | manual operated type |

| | <u>Name of Equipment</u> | <u>Q'ty.</u> | <u>Specifications</u> |
|-------------------------|---------------------------------|--------------|--|
| 4-6 | Obstetric Delivery Table | 24 | hydraulic type |
| 4-7 | Obstetric Delivery Forceps set | 33 | size L,M,S |
| 4-8 | Vaccum Extractor | 2 | electric type with suction unit & caster |
| 5. Ward Equipment | | | |
| 5-1 | Examination Lamp | 48 | floor stand type, single lite |
| 5-2 | Portable Suction Unit | 34 | single bottle, diaphragm type |
| 5-3 | Orthopedic Bed | 12 | with traction device |
| 5-4 | Trans Cutaneous Stimulator | 3 | 300W, slide 800mm |
| 5-5 | Infra Red Lamp | 3 | 80 Hz more, pulse wave 0.25m/sec. |
| 5-6 | Therapeutic Ultrasound | 3 | max. 5W, 1000 KHz with timer |
| 5-7 | Instrument Sterilizer | 39 | electric heat type |
| 5-8 | I.V. Stand | 46 | two hooks with caster |
| 5-9 | Oxygen Suction Unit | 50 | with flow meter, humidifier |
| 6. Laboratory Equipment | | | |
| 6-1 | Spectrophotometer | 15 | visible ray type |
| 6-2 | Laboratory Autoclave | 14 | front door type, stainless steel, 0.2M3 |
| 6-3 | Blood Bank Refrigerator | 15 | full-view type, 20~30 blood bags |
| 6-4 | Laboratory Refrigerator | 13 | 200 liter, stainless steel |
| 6-5 | Water Bath | 17 | for 150~200 test tubes |
| 6-6 | Laboratory Incubator | 11 | 0.5m ³ capacity, with timer |
| 6-7 | Differential Leucocyter Counter | 22 | manual type |
| 6-8 | Centrifuge | 13 | with hematocrit adapter |
| 6-9 | Binocular Microscope | 33 | max. 1500X, with illuminator |
| 6-10 | Pipette Washer | 28 | plastic type |
| 7. Miscellaneous | | | |
| 7-1 | Ambulance | 16 | 4 cylinder diesel engine, 4WD, 2500cc |
| 7-2 | Community Service Vehicle | 22 | 4 cylinder diesel engine, 9 person seats |
| 7-3 | Maintenance Service Vehicle | 1 | van type, diesel engine, 2000cc |
| 7-4 | Maintenance Tool Set | 35 | AC/DC tester, wrench, Nipper etc. |
| 7-5 | Power Generator | 22 | 50~65KVA, diesel engine driven |
| 7-6 | High Pressure Sterilizer | 5 | 0.6m ³ , electric heat type |
| 7-7 | Water Pump | 17 | 3 HP motor, with reservoir tank |
| 7-8 | Sterilizer | 15 | electric heat type |
| 7-9 | Deep Freezer | 25 | appx. 500 liter |
| 7-10 | Ice Making Machine | 23 | ice cube 30 kg/day |

Table V - 2(1)
Equipment Plan

| | ABRA PROVINCIAL HOSPITAL | ILOCOS NORTE PROVINCIAL HOSPITAL | GABRIELA SILANG GENERAL HOSPITAL | NUEVA VIZCAYA PROVINCIAL HOSPITAL | APARRI PROVINCIAL HOSPITAL | BATANES PROVINCIAL HOSPITAL | BULACAN PROVINCIAL HOSPITAL | PAMPANGA PROVINCIAL HOSPITAL | EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | MAEINDUQUE PROVINCIAL HOSPITAL | ANDERS BONIFACIO MEMORIAL HOSPITAL | MINDORO OCCIDENTAL PROVINCIAL HOSPITAL |
|-------------------------------------|--------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|---|--------------------------------|------------------------------------|--|
| Region | I | | | II | | | III | | M | IV | | |
| Ref. No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 3 |
| 1. Diagnosis Equipment | | | | | | | | | | | | |
| 1-1 X-Ray Equipment, 500mA 150kV | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 1-2 X-ray equipment, 300mA 150kV | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-3 Airconditioner for X-Ray Room | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 1-4 X-Ray Film Processing Tank | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1-5 X-Ray Accessories Set | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1-6 Ultrasound Scanner(U.S.G. Unit) | - | - | - | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 1-7 Airconditioner for U.S.G. Room | - | - | - | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 1-8 Electrocardiograph 1-channel | 1 | 2 | 1 | 1 | 2 | - | 2 | 1 | 2 | 1 | 2 | 2 |
| 1-9 Proctosigmoidoscope | - | - | 1 | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 1-10 Gastrointestintinal Fiberscope | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 1-11 Broncho Fiberscope | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 1-12 Cystoscope | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-13 Diagnostic Set | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| 1-14 Sphygmomanometer, Stand-type | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 1 |
| 1-15 Sphygmomanometer, Table-Top, | 3 | 2 | 3 | 3 | 2 | 5 | 3 | 2 | 2 | 3 | 3 | 1 |
| 1-16 Stethoscope | 2 | 3 | 3 | 5 | 5 | 5 | 5 | 4 | 2 | 2 | 6 | 1 |
| 2. Operating Room Equipment | | | | | | | | | | | | |
| 2-1 Major Operating Light | 1 | - | 1 | 1 | 1 | 1 | 1 | - | 1 | - | 1 | 1 |
| 2-2 Minor Operating Light | - | 1 | 1 | 1 | - | 1 | 1 | - | 1 | - | 1 | - |
| 2-3 Mobile Operating Light | 1 | 1 | - | 1 | - | 1 | - | - | 1 | - | - | 1 |
| 2-4 Major Operating Table | - | 1 | 1 | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 2-5 Minor Operating Table | 1 | - | - | - | - | 1 | 1 | 1 | - | - | 1 | 1 |
| 2-6 Orthopedic Surgery Table | - | - | - | 1 | - | - | - | - | 1 | - | - | - |

| BATANGAS PROVINCIAL HOSPITAL | | MINDORO PROVINCIAL HOSPITAL | | AURORA MEMORIAL HOSPITAL | | PUERTO PRINCESA PROVINCIAL HOSPITAL | | ROMBLON PROVINCIAL HOSPITAL | | CAMARINES NORTE PROVINCIAL HOSPITAL | | EASTERN BICOL MEDICAL CENTER | | MASBATE PROVINCIAL HOSPITAL | | DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL | | DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL | | GUIMARAS DISTRICT HOSPITAL | | CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL | | NORTHERN SAMAR PROVINCIAL HOSPITAL | | WESTERN SAMAR PROVINCIAL HOSPITAL | | ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | | AGUSAN DEL SUR PROVINCIAL HOSPITAL | | DAVAO ORIENTAL PROVINCIAL HOSPITAL | | ILIGAN CITY DISTRICT HOSPITAL | | LANAO DEL NORTE PROVINCIAL HOSPITAL | | MAGUINDANAO PROVINCIAL HOSPITAL | | HOSPITAL MAINTENANCE SERVICE, DOH | | TOTAL | |
|------------------------------|---|-----------------------------|---|--------------------------|---|-------------------------------------|---|-----------------------------|---|-------------------------------------|---|------------------------------|---|-----------------------------|---|---------------------------------------|---|--|---|----------------------------|---|---|---|------------------------------------|---|-----------------------------------|---|---------------------------------------|---|------------------------------------|---|------------------------------------|---|-------------------------------|---|-------------------------------------|---|---------------------------------|---|-----------------------------------|-----|-------|--|
| | | | | | | | | | | V | | | | VI | | | | VII | | VIII | | IX | | X | | XI | | XII | | | | | | | | | | | | | | | |
| 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | | | | | | | | | | | | | | | |
| - | 1 | - | - | - | 1 | 1 | 1 | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | | | | | | | | | | | | | 22 | | |
| - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 2 | | |
| - | 1 | 1 | - | 1 | 1 | 1 | 1 | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | | | | | | | | | | | | | | 24 | | |
| - | 1 | 1 | - | 1 | 1 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | | | | | | | | | | | | | | 27 | | |
| - | 1 | 1 | - | 1 | 1 | 1 | 1 | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | | | | | | | | | | | | | | 26 | | |
| - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | | | | | | | 6 | | |
| - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | | | | | | | 6 | | |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 38 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 5 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 1 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 1 | | |
| - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 1 | | |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 44 | | |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 55 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 74 | |
| 2 | 4 | 2 | 2 | 2 | 3 | 3 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | 110 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | - | - | - | 1 | - | 1 | - | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | 1 | 1 | - | - | 1 | 1 | 1 | 1 | - | - | | | | | | | | | | | | | 18 | | |
| - | - | 1 | 1 | - | - | 1 | - | - | - | - | 1 | - | - | 1 | 1 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 13 | | |
| 1 | 1 | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | - | 1 | - | - | 1 | - | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 | | |
| - | 1 | - | - | - | 1 | - | - | 1 | 1 | - | - | 1 | 1 | - | 1 | - | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | - | - | | | | | | | | | | | | | | 15 | | |
| - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 9 | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | 2 | | |

Table V - 2 (2)
Equipment Plan

| | ABRA PROVINCIAL HOSPITAL | ILOCOS NORTE PROVINCIAL HOSPITAL | GABRIELA SILANG GENERAL HOSPITAL | NUEVA VIZCAYA PROVINCIAL HOSPITAL | APARRI PROVINCIAL HOSPITAL | BATANES PROVINCIAL HOSPITAL | BULACAN PROVINCIAL HOSPITAL | PAMPANGA PROVINCIAL HOSPITAL | EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | MARINQUE PROVINCIAL HOSPITAL | ANDERS BONIFACIO MEMORIAL HOSPITAL | MINDORO OCCIDENTAL PROVINCIAL HOSPITAL |
|---|--------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|---|------------------------------|------------------------------------|--|
| Region | I | | | II | | | III | | M | IV | | |
| Ref. No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 3 |
| 2-7 Gynecological Surgery Table | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - |
| 2-8 Airconditioner for Major O.R. | 1 | 1 | 1 | 1 | 1 | 1 | 2 | - | 2 | - | 1 | - |
| 2-9 Airconditioner for Gyn. O.R. | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - |
| 2-10 Airconditioner for Minor O.R. | 1 | - | - | - | - | - | 1 | - | 1 | - | 1 | 1 |
| 2-11 Anesthesia Apparatus | - | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 2-12 Electro-Surgical Unit | - | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 |
| 2-13 Mobile Suction Unit (Heavy outy) | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| 2-14 Portable Suction Unit | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| 2-15 High Speed Sterilizer (Table tope) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2-16 Endotracheal Set | 1 | 2 | 2 | 2 | 1 | 1 | - | 1 | 2 | 1 | 2 | 1 |
| 2-17 Manual Resuscitator Set | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| 2-18 Major Surgical Instrument Set | - | 1 | 1 | 1 | - | - | 1 | 1 | 2 | 1 | 1 | 1 |
| 2-19 Small Operating Instrument Set | - | - | - | - | - | 1 | 1 | - | 1 | - | 1 | - |
| 2-20 Appendectomy Instrument Set | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 2 | - | 1 | - |
| 2-21 Emergency Tracheotomy Instrument Set | 1 | - | - | 1 | - | - | 1 | - | 1 | 1 | - | - |
| 2-22 Pediatric Surgical Instrument Set | - | - | - | - | - | - | 1 | - | 1 | - | - | - |
| 2-23 Cesarean Incision Set | - | 1 | 1 | 1 | - | - | 1 | 1 | 1 | - | 1 | - |
| 2-24 Instrument Table | 1 | 1 | 1 | 1 | ○ | ○ | 1 | 1 | 1 | 1 | 1 | 1 |
| 3. I.C.U. Equipment | | | | | | | | | | | | |
| 3-1 Bedside Patient Monitor | - | 1 | 2 | 2 | - | - | 1 | - | 3 | - | 2 | - |
| 3-2 I.C.U. Bed | - | 1 | 2 | 2 | - | - | 1 | - | 3 | - | 2 | - |
| 3-3 Defibrillator | - | 1 | 1 | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 3-4 Critical Care Ventilator | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 3-5 Portable Suction Unit | 1 | 1 | 1 | 2 | 1 | - | 1 | 1 | 2 | 1 | 2 | 1 |

| BATANGAS PROVINCIAL HOSPITAL | | | | | V | | | | | VI | | | VII | | | VIII | | | IX | | X | | XI | | XII | | | | | | | |
|---|--|--|--|--|---|---|---|---|---|----|---|---|-----|---|---|------|---|---|----|---|---|---|----|---|-----|---|---|---|---|----|----|----|
| MINDORO PROVINCIAL HOSPITAL | | | | | 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | | | | | | |
| AURORA MEMORIAL HOSPITAL | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 4 | |
| PUERTO PRINCESA PROVINCIAL HOSPITAL | | | | | 1 | 1 | - | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | - | - | 26 | | |
| ROMBLON PROVINCIAL HOSPITAL | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 4 | |
| CAMARINES NORTE PROVINCIAL HOSPITAL | | | | | 1 | 1 | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| EASTERN BICOL MEDICAL CENTER | | | | | - | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | - | - | - | 1 | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | 20 | |
| MASBATE PROVINCIAL HOSPITAL | | | | | - | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | - | - | 1 | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - | 20 | |
| DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 30 | |
| DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 35 | |
| GUIMARAS DISTRICT HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 32 | |
| CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL | | | | | 1 | 1 | - | - | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | 26 | |
| NORTHERN SAMAR PROVINCIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 39 | |
| WESTERN SAMAR PROVINCIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 20 | |
| ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | | | | | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | 1 | - | - | - | 11 | |
| AGUSAN DEL SUR PROVINCIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26 | |
| DAYAO ORIENTAL PROVINCIAL HOSPITAL | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | |
| ILIGAN CITY DISTRICT HOSPITAL | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | |
| LANAO DEL NORTE PROVINCIAL HOSPITAL | | | | | - | 1 | - | - | - | 1 | 1 | 1 | - | 1 | - | - | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - | 15 | |
| MAGUINDANAO PROVINCIAL HOSPITAL | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 31 | |
| HOSPITAL MAINTENANCE SERVICE, DOH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - | 16 | | |
| | | | | | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - | 16 | | |
| | | | | | - | 1 | - | - | - | 1 | 1 | - | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | - | 14 | | |
| | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | | |
| | | | | | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | 30 | | |

Table V - 2(3)

Equipment Plan

| | ABRA PROVINCIAL HOSPITAL | ILOCOS NORTE PROVINCIAL HOSPITAL | GABRIELA SILANG GENERAL HOSPITAL | NUOVA VIZCAYA PROVINCIAL HOSPITAL | APAERI PROVINCIAL HOSPITAL | BATANES PROVINCIAL HOSPITAL | BULACAN PROVINCIAL HOSPITAL | PAMPANGA PROVINCIAL HOSPITAL | EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | MARINQUE PROVINCIAL HOSPITAL | ANDERS BONIFACIO MEMORIAL HOSPITAL | MINDORO OCCIDENTAL PROVINCIAL HOSPITAL |
|--|--------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------|-----------------------------|-----------------------------|------------------------------|---|------------------------------|------------------------------------|--|
| Region | I | | | II | | | III | | M | IV | | |
| Ref. No. | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 3 |
| 3-6 Manual Resuscitator | 1 | 1 | 1 | 2 | 1 | - | 2 | 1 | 2 | 1 | 2 | 1 |
| 3-7 Air Conditioner for ICU | - | 1 | 1 | 1 | 1 | - | - | - | 1 | 1 | 1 | - |
| 4. OB & GNY Equipment(Including Neonatals) | | | | | | | | | | | | |
| 4-1 Infant Incubator | - | 1 | 1 | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 4-2 Phototherapy Unit | - | - | - | 1 | - | - | 1 | - | 1 | - | 1 | - |
| 4-3 Jacson Rees Resusci Bag | - | - | - | 1 | - | - | 1 | 1 | 1 | - | 1 | 1 |
| 4-4 Oxygen Tent | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 4-5 Clinical Examination Table | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 4-6 Obstetric Delivery Table | 1 | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 | 1 | 1 |
| 4-7 " " Forceps set | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| 4-8 Vacuum Extractor | - | - | - | - | - | - | 1 | - | 1 | - | - | - |
| 5. Ward Equipment | | | | | | | | | | | | |
| 5-1 Examination Lamp | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 2 | 1 |
| 5-2 Portable Suction Unit | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| 5-3 Orthopedic Bed | - | - | - | 1 | 1 | - | 1 | 1 | 2 | 1 | 1 | 1 |
| 5-4 Trans Cutaneous Stimulator | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 5-5 Infra Red Lamp | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 5-6 Therapeutic Ultrasound | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 5-7 Instrument Sterilizer | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 |
| 5-8 I.V. Stand | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 2 |
| 5-9 Oxygen Suction Unit | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| BATANGAS PROVINCIAL HOSPITAL | | MINDORO PROVINCIAL HOSPITAL | | AURORA MEMORIAL HOSPITAL | | PUERTO PRINCESA PROVINCIAL HOSPITAL | | ROMBLON PROVINCIAL HOSPITAL | | CAMARINES NORTE PROVINCIAL HOSPITAL | | EASTERN BICOL MEDICAL CENTER | | MASBATE PROVINCIAL HOSPITAL | | DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL | | DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL | | GUINARAS DISTRICT HOSPITAL | | CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL | | NORTHERN SAMAR PROVINCIAL HOSPITAL | | WESTERN SAMAR PROVINCIAL HOSPITAL | | ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | | AGUSAN DEL SUR PROVINCIAL HOSPITAL | | DAVAO ORIENTAL PROVINCIAL HOSPITAL | | ILIGAN CITY DISTRICT HOSPITAL | | LANAO DEL NORTE PROVINCIAL HOSPITAL | | WAGUINDANAO PROVINCIAL HOSPITAL | | HOSPITAL MAINTENANCE SERVICE, DOH | | TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|-----------------------------|---|--------------------------|---|-------------------------------------|---|-----------------------------|---|-------------------------------------|---|------------------------------|---|-----------------------------|---|---------------------------------------|---|--|---|----------------------------|---|---|---|------------------------------------|---|-----------------------------------|---|---------------------------------------|---|------------------------------------|---|------------------------------------|---|-------------------------------|---|-------------------------------------|---|---------------------------------|---|-----------------------------------|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | | 5 | | 6 | | 7 | | 8 | | V | | VI | | VII | | VIII | | IX | | X | | XI | | XII | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Table V - 2 (4)
Equipment Plan

| Table V - 2(4) | | Equipment Plan | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--------------------------|---|---|----------------------------------|---|---|----------------------------------|---|---|-----------------------------------|---|---|----------------------------|---|---|-----------------------------|---|---|-----------------------------|---|---|------------------------------|---|---|---|---|---|------------------------------|---|---|------------------------------------|---|---|--|--|--|
| | | ABRA PROVINCIAL HOSPITAL | | | ILOCOS NORTE PROVINCIAL HOSPITAL | | | GABRIELA SILANG GENERAL HOSPITAL | | | NUEVA VIZCAYA PROVINCIAL HOSPITAL | | | APARRI PROVINCIAL HOSPITAL | | | BATANES PROVINCIAL HOSPITAL | | | BULACAN PROVINCIAL HOSPITAL | | | PAMPANGA PROVINCIAL HOSPITAL | | | EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | | | MARINQUE PROVINCIAL HOSPITAL | | | ANDERS BONIFACIO MEMORIAL HOSPITAL | | | MINDORO OCCIDENTAL PROVINCIAL HOSPITAL | | |
| Region | | I | | | II | | | III | | | M | | | IV | | | | | | | | | | | | | | | | | | | | | | | |
| Ref. No. | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | | | |
| 6. Laboratory Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-1 Spectrophotometer | | - | 1 | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | | | |
| 6-2 Laboratory Autoclave | | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6-3 Blood Bank Refrigerator | | - | 1 | 1 | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6-4 Laboratory Refrigerator | | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | | | |
| 6-5 Water Bath | | - | - | - | 1 | - | - | - | 1 | - | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | | | | |
| 6-6 Laboratory Incubator | | - | - | - | 1 | 1 | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6-7 Differential Leucocyter Counter | | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6-8 Centrifuge | | - | 1 | 1 | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | | | |
| 6-9 Binocular Microscope | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 6-10 Pipette Washer | | - | 1 | 1 | 1 | - | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 7. Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-1 Ambulance | | - | - | 1 | - | - | - | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 7-2 Community Service Vehicle | | 1 | 1 | - | 1 | 1 | 1 | - | 1 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 7-3 Maintenance Service Vehicle | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 7-4 Maintenance Tool Set | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 7-5 Power Generator | | 1 | 1 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 7-6 High Pressure Sterilizer | | - | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | | | |
| 7-7 Water Pump | | - | 1 | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 7-8 Sterilizer | | - | - | 1 | 1 | - | 1 | - | 1 | - | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | - | - | 1 | | | |
| 7-9 Deep Freezer | | 1 | 1 | 1 | 1 | - | - | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 7-10 Ice Making Machine | | - | - | - | 1 | - | 1 | 1 | 1 | 1 | - | 1 | - | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |

| BATANGAS PROVINCIAL HOSPITAL | MINDORO PROVINCIAL HOSPITAL | AURORA MEMORIAL HOSPITAL | PUERTO PRINCESA PROVINCIAL HOSPITAL | ROMBLON PROVINCIAL HOSPITAL | CAMARINES NORTE PROVINCIAL HOSPITAL | EASTERN BICOL MEDICAL CENTER | MASBATE PROVINCIAL HOSPITAL | DR. RAFAEL TUMBOKON MEMORIAL HOSPITAL | DELEGATE ANGEL SALAZAR MEMORIAL HOSPITAL | GUIMARAS DISTRICT HOSPITAL | CONGRESSMAN MAXIMINO GARCIA MEMORIAL HOSPITAL | NORTHERN SAMAR PROVINCIAL HOSPITAL | WESTERN SAMAR PROVINCIAL HOSPITAL | ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | AGUSAN DEL SUR PROVINCIAL HOSPITAL | DAVAO ORIENTAL PROVINCIAL HOSPITAL | ILIGAN CITY DISTRICT HOSPITAL | LANAO DEL NORTE PROVINCIAL HOSPITAL | WAGUINDANAO PROVINCIAL HOSPITAL | HOSPITAL MAINTENANCE SERVICE, DOH | TOTAL |
|------------------------------|-----------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|------------------------------|-----------------------------|---------------------------------------|--|----------------------------|---|------------------------------------|-----------------------------------|---------------------------------------|------------------------------------|------------------------------------|-------------------------------|-------------------------------------|---------------------------------|-----------------------------------|-------|
| | | | | | V | | | VI | | VII | VIII | | IX | X | XI | XII | | | | | |
| 4 | 5 | 6 | 7 | 8 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | | |
| - | 1 | - | - | - | - | 1 | 1 | 1 | 1 | - | - | 1 | 1 | - | 1 | - | 1 | 1 | - | | 15 |
| - | 1 | - | 1 | 1 | - | 1 | 1 | - | 1 | - | - | 1 | 1 | - | 1 | - | - | - | - | | 14 |
| - | 1 | - | - | - | - | 1 | - | - | - | 1 | 1 | 1 | 1 | - | 1 | - | - | - | - | | 15 |
| - | 1 | - | - | - | - | - | - | 1 | 1 | - | - | 1 | 1 | - | 1 | - | 1 | - | - | | 13 |
| - | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | | 17 |
| - | 1 | - | - | - | 1 | 1 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | | 11 |
| - | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | - | | 22 |
| - | 1 | - | - | - | 1 | 1 | - | - | 1 | - | - | 1 | 1 | - | 1 | - | - | - | - | | 13 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 33 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 28 |
| - | - | 1 | - | - | 1 | - | 1 | - | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | - | | 16 |
| 1 | 1 | - | - | 1 | 1 | 1 | 1 | 1 | - | 1 | - | 1 | 1 | - | 1 | - | 1 | - | 1 | | 22 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 35 |
| 1 | - | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | - | - | 1 | 1 | 1 | - | - | | 22 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | 5 |
| 1 | - | 1 | - | 1 | 1 | - | 1 | - | 1 | 1 | - | 1 | 1 | 1 | - | 1 | - | - | 1 | | 17 |
| - | 1 | - | - | - | 1 | - | 1 | 1 | 1 | - | - | 1 | 1 | - | - | - | 1 | - | - | | 15 |
| - | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 25 |
| 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | 1 | 1 | - | - | 1 | 1 | 1 | | 23 |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

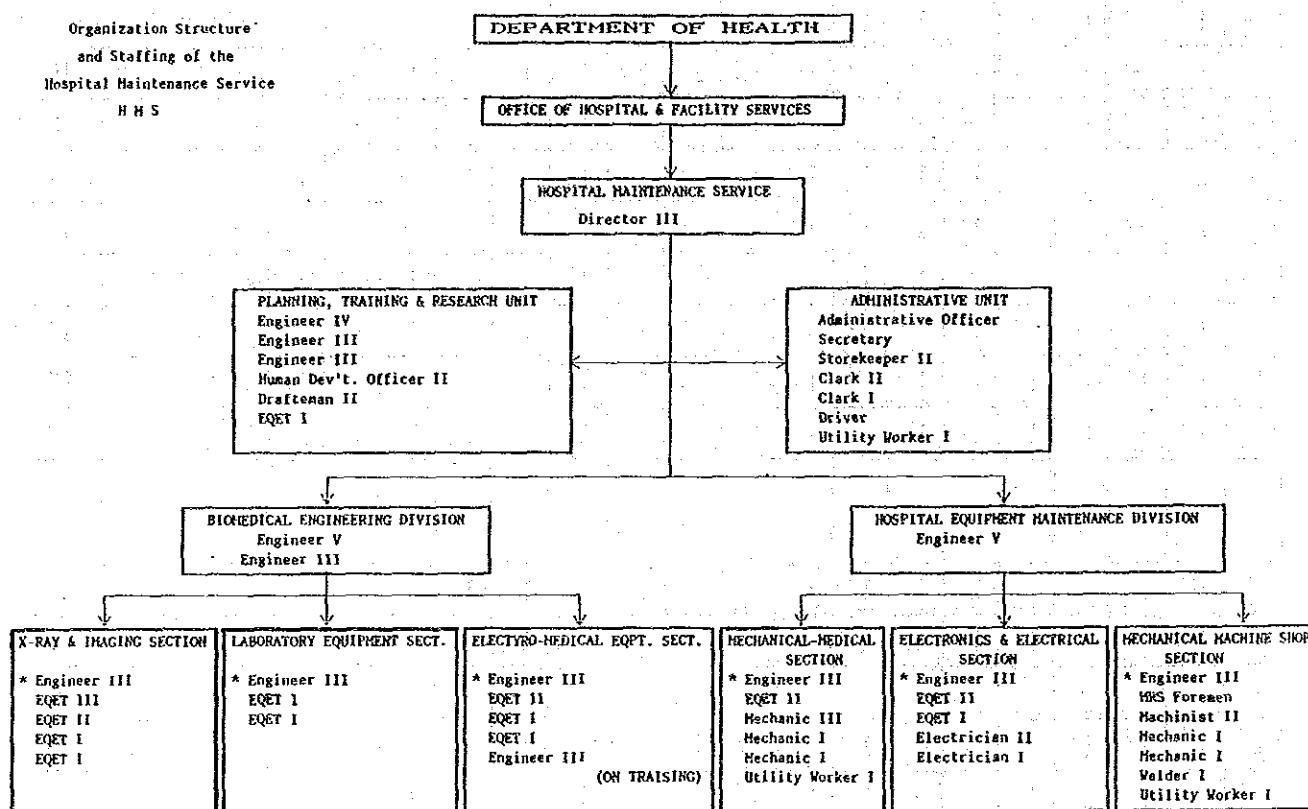
5-4. Operation and Maintenance Plan

(1) Maintenance plan

1) Maintenance plan organization

The Department of Health has presently a Hospital Maintenance Service led by the chief engineer. This service is composed of a total of 45 members and carries out maintenance of hospital facilities and equipment which are under the Department of Health.

Organization Structure
and Staffing of the
Hospital Maintenance Service
H H S



2) Maintenance system

Repair and maintenance are carried out according to the following procedure.

1. The Hospital Maintenance Service sets up a schedule in compliance with repair requests from hospitals.
2. Visiting hospitals in accordance with the schedule.
3. Repairs equipment on the spot if repairable (without charges).
4. Preparing a maintenance report stating necessity of spare parts for repair and request of major repairs by local repair shop if any.
5. The hospital carries out the required procedures such as purchasing repair parts in accordance with the maintenance report.
6. The Hospital Maintenance Service carries out installation and repairs. (Transportation and lodging costs are borne by the hospital)

3) Maintenance budget

The budget appropriated for maintenance activities of the Hospital Maintenance Service during the past three year period from 1989 through 1990 is as shown below.

Table Y-2 Hospital Maintenance Budget

(1000 peso)

| Fiscal Year | 1988 | 1989 | 1990 |
|--------------------------|-------|-------|-------|
| Item | | | |
| Purchase of Equipment | 421 | — | 960 |
| Repair cost | | | |
| Purchase of spare parts, | | | |
| Traveling Fare | 1,466 | 1,466 | 1,466 |
| Telephone Fee | | | |
| Electric Power Expense | | | |
| Wages | 1,467 | 1,467 | 1,467 |
| Total Outlay | 3,354 | 2,933 | 3,893 |

Source: DOH

(2) Operational Cost

The costs in the Philippines of expendables such as electricity, fuel,

water and medical gas that are related to the equipment procured under this project are as shown below as of March, 1991.

| <u>Public rates</u> | <u>Unit price</u> |
|---|--------------------------|
| Electricity | Average 1.98 peso/Kw |
| Water | 3.57 peso/m ³ |
| <u>Oil (Fuel)</u> | |
| Diesel | 7.75 peso/liter |
| Gasoline | 15.75 peso/liter |
| <u>Medical gas</u> | |
| Oxygen (5 feet tank) | 310.00 peso/5660 liter |
| Nitrous oxide | 4,500.00 peso/25 kg |
| <u>X-ray film</u> | |
| 14"x17" (100/box) | 3,148.00 peso/box |
| <u>Developing solution</u> | |
| Automatic developing solution(38~40 liter/box) | 1,290.00 peso/box |
| Manual developing solution | 325.00 peso/5 gal. |
| <u>Fixing solution</u> | |
| Fixing solution/5 gal. | 325.00 peso/5 gal. |
| For manual development (5 l/box) | 560.00 peso/5 liter |
| For automatic developer (38 l/box) | 786.90 peso/box |

1) Operation and maintenance costs

Operation and maintenance costs required with supplying of equipment under this project are as follows. However, since many of the equipment procured are for replacement of superannuated equipment presently in use or for supplementing equipment that has recently become faulty and is unrepairable, it is not necessary to increase operation and maintenance costs nor to increase the budget.

① Electricity rates

In addition to area-wise difference of the basic system of electricity rates, the rates will also differ corresponding to the basic rate and amount of power used. The average of 1.98 peso/KW is therefore adopted.

TableV-2 below shows major equipment requiring consumption of power as well as estimated cost.

TableV-2 Major Equipment Requiring Consumption of Power

| | Unit | Power Consumption | Operation hr./day | Operation day/mon. | Power Consumption per year | Remark |
|---------------------|------|-------------------|-------------------|--------------------|----------------------------|---------------------------------|
| | | KW | | | KW | |
| X-Ray Unit | 24 | 25.0 | 0.12 | 20 | 17,280 | 10 film/day 7 sec/film |
| Air Conditioner | 24 | 2.0 | 15.00 | 30 | 259,200 | |
| Ultrasound Scanner | 6 | 0.5 | 1.3 | 10 | 468 | 4 persons/day 20 min/inspec. |
| ECG Unit | 38 | 0.2 | 0.67 | 20 | 1,222 | 20 persons/day 2 min/inspec. |
| O.R.Light (Main) | 18 | 1.0 | 8.0 | 20 | 34,560 | 4 persons/day 2hrs. |
| " (Sub.) | 13 | 0.8 | 2.0 | 20 | 4,992 | 2 persons/day 1hrs. |
| " (Mobile) | 18 | 0.7 | 4.0 | 20 | 12,096 | 4 persons/day 1hrs. |
| A.Conditioner(O.R.) | 26 | 2.0 | 8.0 | 20 | 99,840 | |
| " (GYN) | 4 | 2.0 | 2.0 | 20 | 3,840 | |
| " (Sub.O.R.) | 10 | 2.0 | 4.0 | 20 | 19,200 | |
| Autoclave | 32 | 3.0 | 2.0 | 10 | 29,040 | 2 times/day 1hrs. |
| ICU Monitor | 16 | 1.0 | 24.0 | 10 | 46,080 | 1 person/day 24hrs. |
| A.Conditioner(ICU) | 12 | 2.0 | 24.0 | 15 | 103,680 | |
| Infant Incubator | 12 | 2.0 | 24.0 | 15 | 103,680 | 1 person/day 24hrs. |
| Phototherapy Unit | 5 | 1.0 | 10.0 | 15 | 9,000 | 1 person/day 10hrs. |
| Ex. Light | 48 | 0.2 | 3.0 | 20 | 6,912 | 30 persons/day 6min. |
| Ins. Sterilizer | 39 | 1.5 | 2.0 | 10 | 14,040 | 2 times/day 1hrs. |
| Spectrophotometer | 15 | 0.2 | 2.0 | 10 | 720 | 1 time/day 2hrs. |
| Autoclave(Portable) | 14 | 1.5 | 4.0 | 10 | 10,080 | 2 times/day 2hrs. |
| Blood Bank Refg. | 15 | 1.0 | 24.0 | 30 | 129,600 | Continuous 24hrs. |
| Laboratory Refg. | 13 | 0.5 | 24.0 | 30 | 56,160 | " |
| " Incubator | 11 | 0.6 | 24.0 | 10 | 19,008 | " |
| H.P. Sterilizer | 5 | 5.0 | 5.0 | 20 | 30,000 | 2 times/day 2.5hrs. |
| T.W.Sterilizer | 15 | 3.0 | 3.0 | 30 | 50,220 | " |
| Ice Cube m/c | 23 | 0.2 | 3.0 | 25 | 4,140 | " |
| TOTAL | | | | | 1,059,058 | |

$$1,059,058 \text{ KW} \times 1.98 \text{ peso} = 2,096,934.8 \text{ peso}$$

② Water Supply and Drainage Expense

Supplemental budget appropriation for the equipment supplied under the Project is not necessary, as the cost concerned might be included in the budget for existing facilities.

③ Gas for Anesthesia Apparatus

On the basis of average day running hours of equipment as 2 hours the following expenses are required for one year operation.

Oxygen: 2 liters/min x 120 min. = 240 liter x 20 day x 12 month
= 57,600 liters/year

57,600 ÷ 5,660 liters/cylinder = 10.17 cylinders

Gas charging cost: 310 peso/cylinder x 11 cylinders
= 3,410 Peso

N₂O: 4 liters/min x 120 min = 480 liters x 20 day x 12 month
= 115,200 liters/year

115,200 ÷ 4,800 liters/cylinder = 24 cylinders (approx.)

Gas charging cost: 4,500 Peso/cylinder x 24 Cylinders
= 108,000 Peso

TOTAL 111,410 Peso

G.Total: x 20 Hospitals = 2,228,200 Poso

2) Consumable

① X-Ray Division

X-Ray Film 10 film/day x 240 days(year) = 2,400 film/year
x 31.5 Peso/film = 75,600 Peso

Film Developing 1,500 Peso/600 film 2.50 Peso/film

Chemical

2,400 film/r x 2.50 Peso = 6,000 Peso

Total : 75,600 Peso + 6,000 Peso x 24 Hospitals
= 1,958,400 Peso

② Examination Division

E.C.G. Paper 2 rolls/month x 12 = 24 rolls/year/unit

24 rolls x 30 Peso/roll = 720 Peso

x 38 Hospitals = 27,360 Peso

③ Others

Power Generator;

20 hrs./month/unit x 12 month = 240 hrs/m

fuel 5 liter/hr. x 240 hrs = 1,200 liters/year

x 7.75 Peso/liter = 9,300 Peso

x 22 Hospitals = 204,600 Peso

Fuel for Ambulance ;

700 km/month x 12 month = 8,400 km/year

Full Consumption 10 km per liter

840 liter/y x 7.75 Peso/l = 6,510 Peso

x 16 Hospitals = 104,160 Peso

Annual operation and maintenance expense for equipment supplied by the Project is calculated as follows, based on the above estimation.

| | |
|-----------------------------------|-------------------------------|
| Light and heating expense | Approx. 2,096,000 Peso |
| Gas for anesthesia apparatus | " 2,228,000 Peso |
| Consumables for medical equipment | " 2,261,000 Peso |
| Others | " 308,000 Peso |
| Total | Approx. 6,893,000 Peso |

(3) Manpower Program and Budgetary Appropriation for Maintenance

In setting up the basic design, selection of equipment was made in accordance with the fundamental policy that the equipment to be supplied shall be the one requiring as less maintenance works as possible in view not only of the health situation of the Philippines but also of the existing conditions of respective proposed hospitals and financial situation. As for the equipment which may require some extent of maintenance works, on the other hand, appropriate amount of repairing parts shall be attached to, same as in the case of Phase I.

the equipment which can be taken care of by the technical ability of the personnel of Hospital Maintenance Service. Thus, considerations were directed to place as less burdens as possible on financial and manpower situations of the Philippines. It is considered, therefore, that it is not necessary for the Philippines to further strengthen manpower, operational system and budgetary appropriation for the time being.

(4) Cooperation from Private Sector

Basically, same as in the case of Phase I, the equipment supply plan is so designed that works for maintenance can be met, as a principle, by present maintenance system. However, some damages will happen during long term operation of the equipment and malfunction thereof shall be caused by either misuse or the operation beyond the life of the equipment. In order to cope better with such problems, the main equipment to be supplied was selected under the condition, same as in the case of Phase I, that the local agents of the Japanese manufacturers concerned shall be located in the Philippines. The main local agents in the Philippines are as follows:

| Local Agent | Main items being dealt with |
|---|---|
| 1. Medical Center Trading Corp. | Operating Light, Operating Table, Anesthesia Apparatus etc. |
| 2. Federal Medical & Pharmaceutical, Inc. | Defibrillator, Electrocardiograph, etc. |
| 3. Esphar Medical Center | X-Ray Unit, Operating Light, Operating Table, Anesthesia Apparatus, Infant Incubator, Microscope etc. |
| 4. Medico Philippines, Inc. | X-Ray Unit, Ultrasound Scanner, ECG Monitor etc. |
| 5. Instrumix | X-Ray Unit, Ultrasound Scanner, Spectrophotometer etc. |
| 6. Golden P-M Enterprise, Inc. | X-Ray Unit, Ultrasound Scanner, etc. |
| 7. Aseda | Fiberscope, High Speed Sterilizer, Laboratory Apparatus, etc. |

These local Agents having their head offices in Manila City have been actively engaged in sales and after-care services throughout the country of the Philippines.

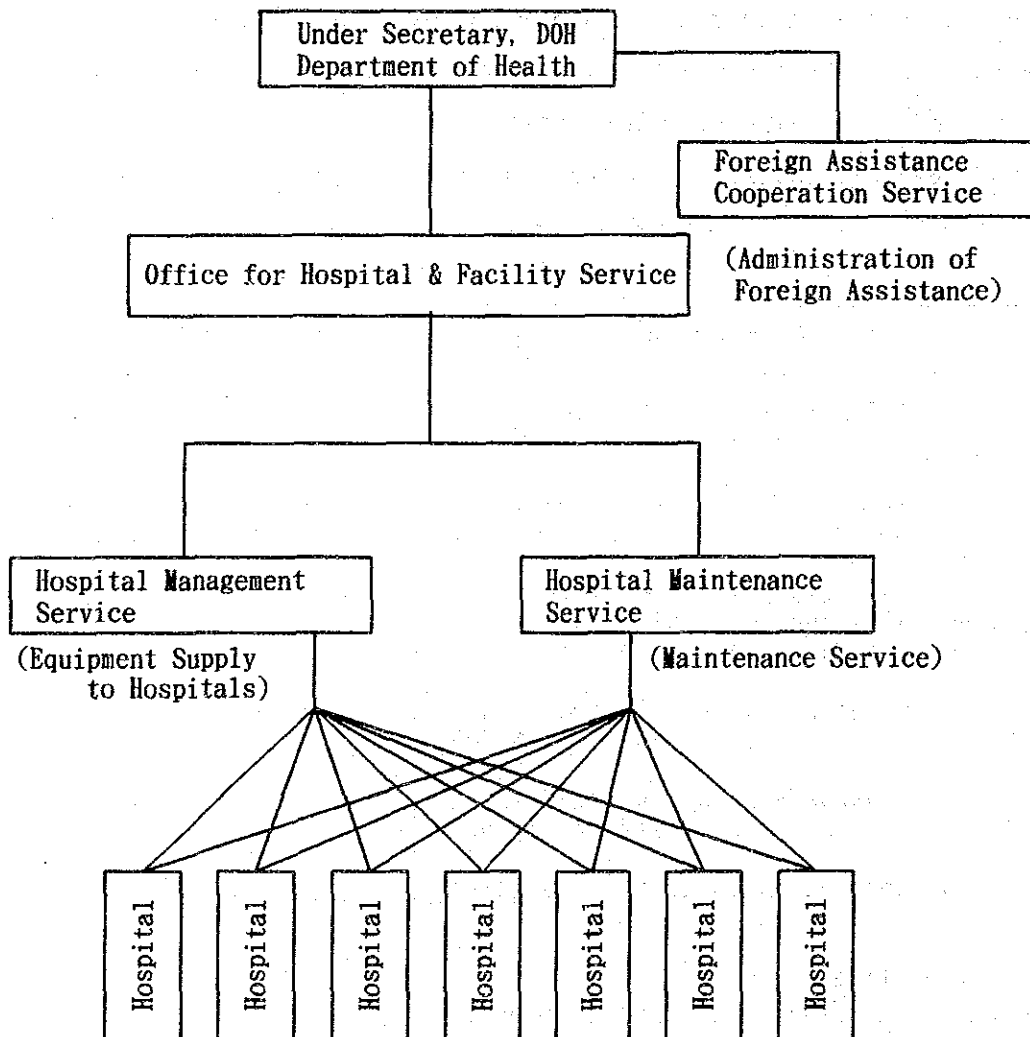
5-5. Project Execution and Management

(1) Project Execution System

This Project is implemented jointly by the implementation body of the Government of the Philippines, the Consultant and the Contractor which those works to be carried out by each party are outlined as follows:

1) Implementation Body

Implementation body of this Project is the Department of Health, Government of the Philippines. Under Secretary of the Department, who was the representative of the Philippine Government at the time of basic design study, will act as main official in charge with the assistance of the following members:



As an executing of the project, the Department of Health shall undertake the following procedures:-

- Conclusion of Consultancy Agreement with Japanese Consulting Firm which is undertaking detailed design, tendering procedures, supervision of the works for implementation of the project.
- Carrying out tendering by public notice through news paper in Japan according to the tender document, decision of adopting a Japanese firm which procures and installs the equipment and conclusion of Supply Contract with the Japanese Firm.
- Acquisition of the verification from Japanese Government for Consultancy Agreement and Supply Contract.
- Preparation of spaces for the equipment to be installed in proposed hospitals.
- Banking arrangement under the Exchange of Notes, payment through the bank according to the agreement and the contract.
- Issuance of various certificates in compliance with the agreement and the contract.

2) Consultant

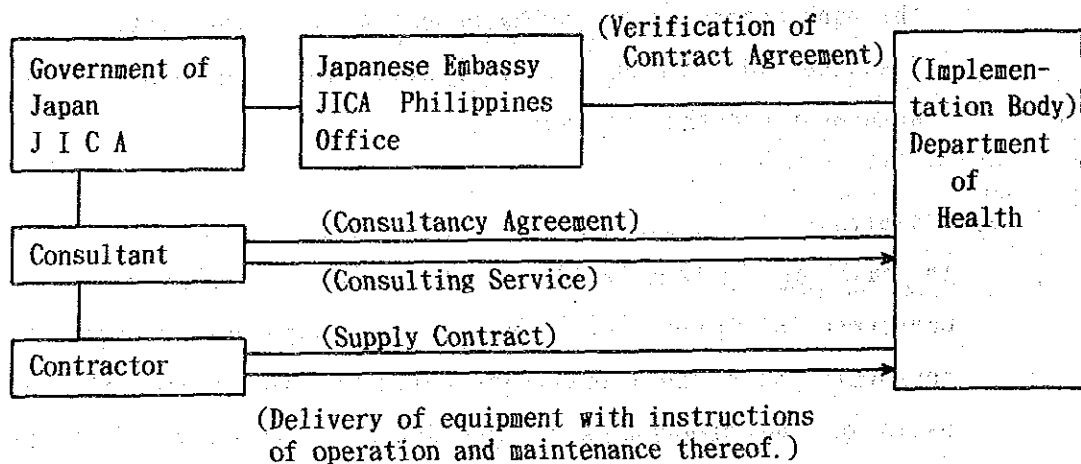
In case of implementation of the Project under the Japanese Government's Grand Aid Program, the Japanese Consultant, in conformity with the consultancy agreement to be concluded on the basis of the procedures of the Japanese Government's Grand Aid System between the implementation body of the Philippine Government and the Consultant, will render the following consulting services:

- Detailed Design - To execute a detailed design study and to prepare specifications of equipment and other documents of technical concerned.
- Tendering - To assist selection of Contractor and to cooperate in concluding contract agreement.
- Procurement - To supervise procurement of equipment and to inspect the equipment prior to shipment thereof.
- Installation - To inspect the equipment delivered to the

hospitals concerned and to supervise installation works thereof.

3) Contractor

Contractor shall be responsible for the delivery and installation of the equipment and for the training of personnel concerned on the operation of the equipment. Since the 32 proposed hospitals of the Project are vastly scattered over the islands areas of the country, substantial duration of time for transportation of the equipment will be needed. It is necessary for the Contractor, therefore, to ensure smooth implementation of the Project under close coordinations with the Implementation Body. The implementation mechanism is shown in the following chart:



As the supply of equipment is performed by a Japanese contractor in conformity with the procedures of the Japanese Government Grant Aid System, the contractor should be the one as the first priority, who can carry out the supply according to the system, and complete the supply within the period of time designated elsewhere.

(2) Undertakings of Both Governments

Undertakings of Governments of Japan and the Philippines are defined as follows:

1) Undertakings of the Government of Japan

To deliver equipment to 32 proposed provincial hospitals, install
thereof and train the Philippine personnel concerned which are
summarized as follows:

(a) The equipment to be supplied by the Government of Japan is
indicated in 5-3-(2) and the proposed hospitals are indicated
in 5-3-(1) above.

(b) All the costs of sea and land transportation of the equipment
to the destinations.

(c) Costs for installation of the equipment.

(d) Costs for training of the Philippine personnel concerned on
initial test, operation and maintenance of the equipment at a
facility in Manila or nearby.

2) Undertakings of the Government of the Philippines

(a) Provision of space and facilities for the installation of the
equipment.

(b) Provision of utilities such as electricity, gas, water,
drainage etc. which are required for the installation of the
equipment.

(c) Provision of storage yard so that the equipment can be safely
stored untill the installation works be undertaken.

(d) Assurance of smooth proceedings of unloading and customs
clearances in the Philippines as well as prompt land
transportation to the sites of the equipment.

(e) Exemption from taxes, duties for the equipment to be
supplied under the Japanese Grant Aid Program as well as
exemption from income taxes and duties in the Philippines for
Japanese nationals providing services under the Project.

(f) Bearing of charges for the Banking Agreement (B/A) and
Authorization to Pay (A/P).

(g) Provision of licenses, approval and other authorizations
required for the execution of the Project.

(h) Bearing of charges for registration fee of Ambulance cars

supplied.

(i) Bearing of costs other than the undertakings of Japanese and Philippine Government which are required for the supply of equipment under the Project.

(j) Bearing of the costs for proper and effective operation and maintenance of the equipment to be supplied under the Project.

(3) Executing Program

This Project shall be implemented under the following work program.

1) To undertake sufficient consultations among the pertinent authorities of both Governments of the Philippines and Japan as well as the Consultant and the Contractor at the various stages of the conclusion of the Exchange of Notes, Tendering, selection of the Contractor, manufacturing schedule of the equipment, inspection at the time of shipment as well as delivery and the payment of the grant money so that the Project shall be implemented smoothly. These consultations include formalities to be taken.

2) In view of the fact that the proposed facilities are hospitals, it is difficult to suspend their routine works for the delivery and installation of the equipment. In order to avoid such a difficult situation, close consultations among personnel concerned on the work schedule etc. should be undertaken beforehand at the stage of detailed design.

3) As for the equipment to be procured in Japan, careful quality control and inspections on the equipment at the times of production and shipment thereof shall be undertaken beforehand in Japan.

4) Installation works of the equipment shall be undertaken by the contractor throughout the Philippines.

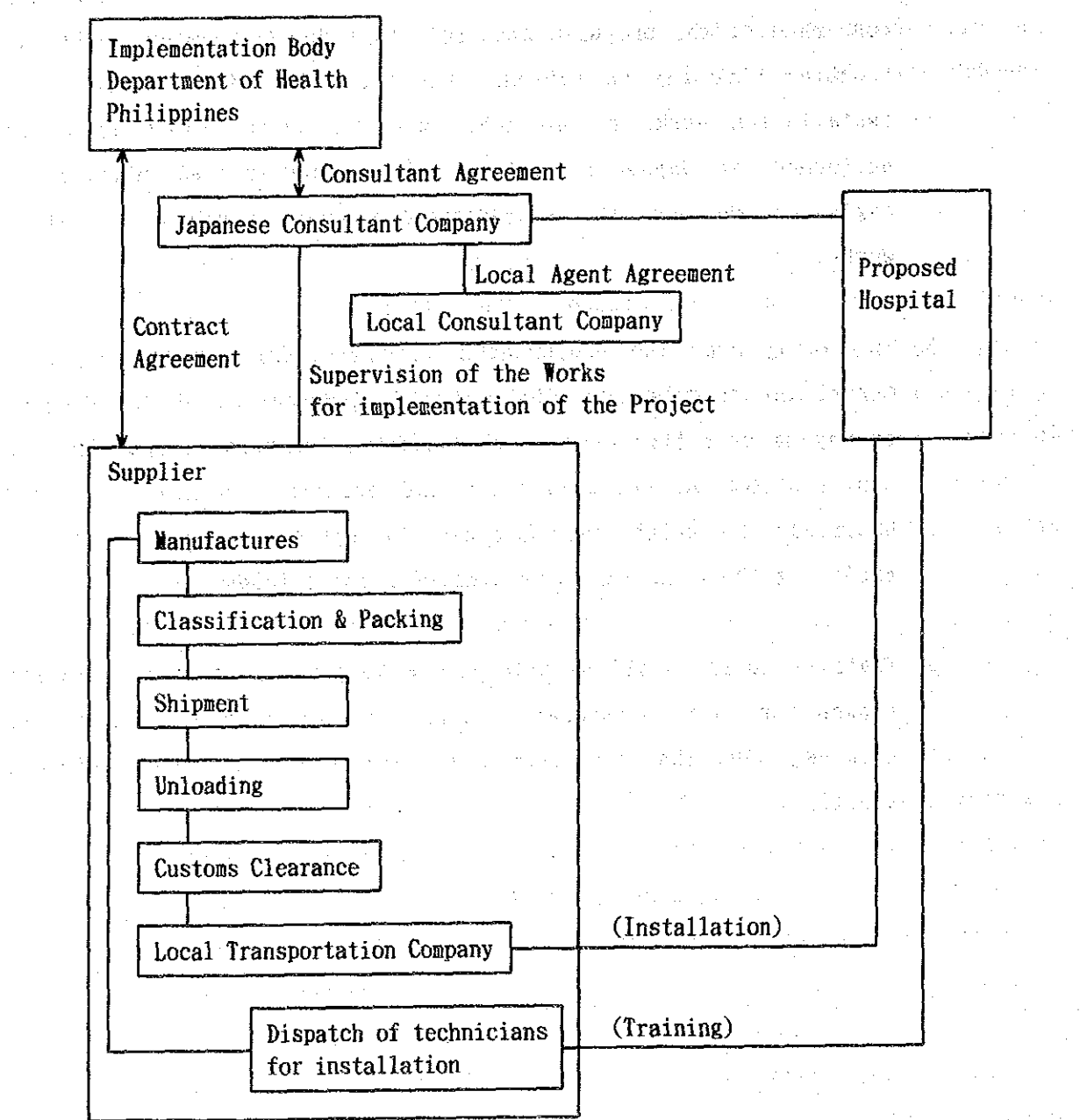
At the hospitals where Japanese engineers are difficult to access

the hospitals other than those in the mid-south parts of its Island, local engineers for Japanese shall undertake these works. Furthermore, the contractor shall render tidily the guidance for the works in advance to the local engineers and the personnel concerned of the proposed hospitals in order to prevent technical trouble which may be arisen. For the above circumstances, the installation works at mid-south part of Luzon Island shall be performed by Japanese engineers being accompanied with local engineers who receive training and are in charge installation works.

- 5) In taking over the equipment it is necessary for the Japanese Consultant to make sure the proper implementation of the Project by way of entrusting the local consultant firm for inspection and confirmation of acceptance of the equipment of the proposed hospitals to which the Japanese Consultant is not accessible excluding those in mid-south area of Luzon Islands.
- 6) Training course shall be held at the hospital in Manila or in its suburb for local personnel concerned in order to give them full knowledge on the operation and maintenance of the equipment supplied.

Flow-Chart of the Implementation System

100-443887-100



(4) Procurement of the Equipment

Procurement of the equipment shall be made in accordance with the following policies:

- 1) In view of the market situations such as Japanese products are very familiar, low-prices and also Maintenance System is being established in the Philippines, many of the equipment shall be procured from Japan. The equipment shall be the products of the manufacturers having their branch offices or agents in the Philippines which can render proper after sales care in addition to installation thereof.
- 2) Such equipment as air-conditioner, voltage regulator etc. available in the Philippines shall be procured locally as much as possible taking into consideration the specifications, costs and maintenance capabilities of the equipment.
- 3) Local manpower (labor power and technician) shall be used for the delivery to, and installation at the proposed hospitals except those in mid-south part of Luzon Island.
- 4) As for the equipment to be procured in Japan, since it is estimated to take approximately seven to eight weeks, namely two weeks respectively for sea transportation and customs clearance, and another three to four weeks for inland transportation of the equipment to each hospital, the procurement schedule of the equipment should be planned with taking full considerations the time factor mentioned above.

(5) Execution Schedule

Execution schedule of this Project is prepared based on the procedure of the Japanese Government's Grant Aid and on condition that both related agencies of Japan and the Philippines shall proceed respectively without delay to the necessary works for documentary procedures as well as equipment procurement.

Implementation schedule of the Project shall be carried out in accordance with the following three steps starting from the date of conclusion of the Exchange of Notes between the both Governments concerned:

① Detailed Design : Required for 2.5 months

- Detailed design after verification of consultancy agreement: Approx. 1.7 months
- Preparation of the Tender Documents and verification thereof: Approx. 0.8 months

② Tendering : Required for 1.5 months

- From public notice to tender opening: Approx. 1 month
- For evaluation: Approx. 0.5 month

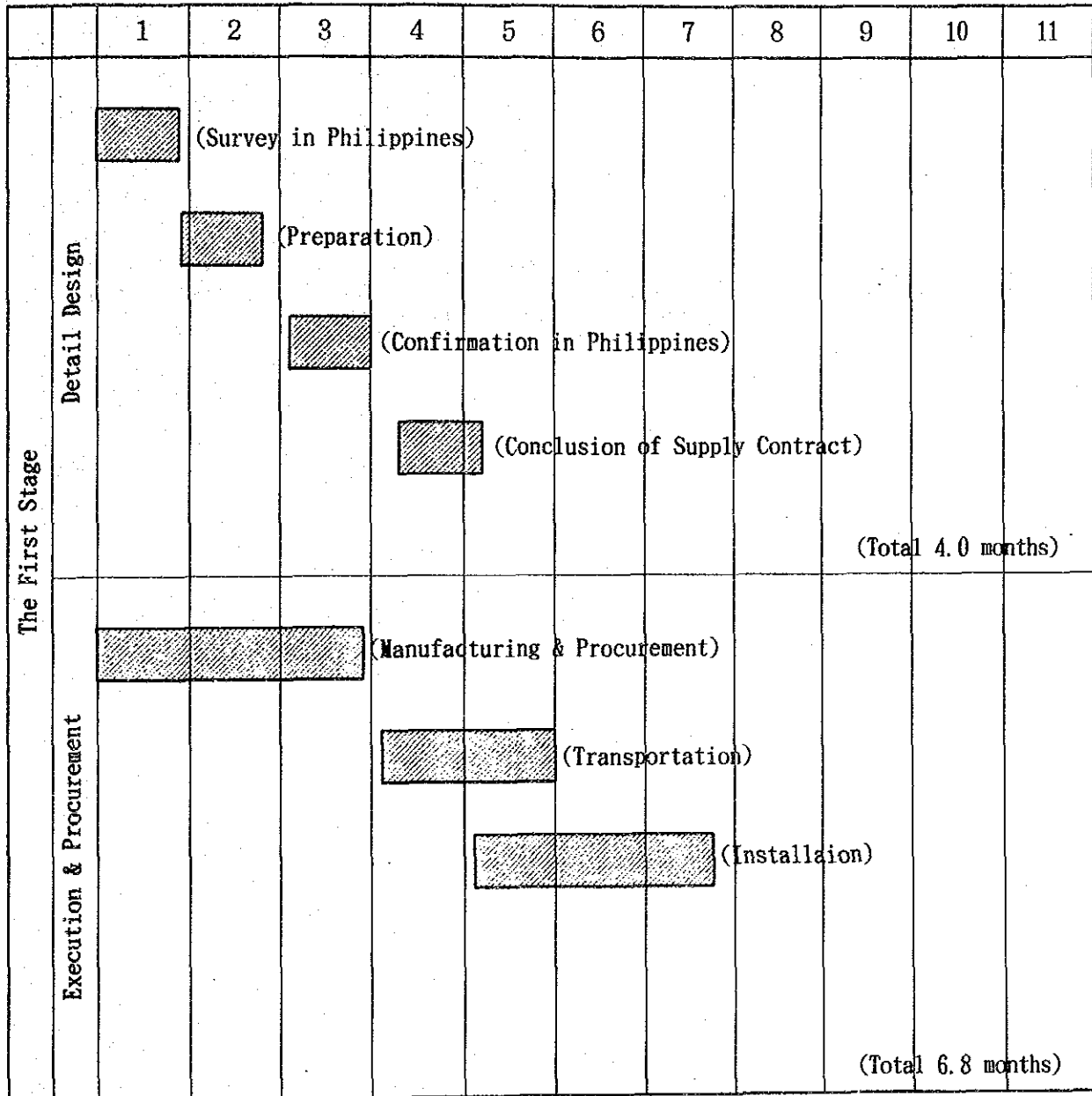
③ Implementation of works: Required for 6.8 months

- Manufacturing of the equipment after conclusion of the Contract Agreement: Approx. 3.0 months
- Customs clearance, sea and inland transportation of the equipment: Approx. 2.0 months
- Installation and orientation by the Contractor and inspection by the Consultant: Approx. 1.8 months

Accordingly, this Project shall be completed in about 7 months including the time necessary for verification by the Government of Japan of the Supply Contract. Work Program is shown in Table V-2 in the next page.

THE PROJECT FOR UPGRADING MEDICAL EQUIPMENT OF
PROVINCIAL HOSPITALS
[PHASE II]

V-2 EXECUTING WORKS SCHEDULE



CHAPTER VI EFFECTIVENESS OF PROJECT AND CONCLUSIONS

CHAPTER 6 EFFECTIVENESS OF PROJECT AND CONCLUSIONS

6-1. Project Evaluation

(1) Effectiveness of Project and Conclusions

The following results can be anticipated with implementation of this project.

1) Direct Effectiveness

| Actual state and problems | Countermeasures | Effectiveness of the Project |
|--|---|--|
| 1. Because of financial pressure, repair and supplementing of superannuated equipment in the public medical hospitals has become difficult and the hospitals are unable to provide appropriate health and medical service to the people. | Procurement of equipment to replace or supplement superannuated equipment in the proposed hospitals of the project. | The medical service system of each hospital of the project will be restored or improved with improvement of the equipment and thus assure high quality health and medical service. |
| 2. Area differences in number of people engaged in medical work and the number of medical equipment in use have arisen in recent years because of increase in population and uneven allocation of the health and medical budget. | Procurement of the necessary equipment to enable smooth medical activities. | Improvement of the medical equipment will enhance medical activity, enable posting the required number of medical personnel and will eliminate area difference in medical service. |
| 3. People in remote areas are unable to appropriate medical service because of underdevelopment of transporting facilities and this has caused to tend to deny the national health and medical service administration. | Improvement of access to remote area by procuring ambulances and community service cars. | It will provide equal opportunity for those living in areas where there were no medical facilities or where access to the medical facility is not possible to obtain health and medical service equal to that for people living in the cities. |

The objects of this project are hospitals facilities in the metropolitan areas and local cities of the Philippines, and are core medical facilities in each area. As explained above, the level of the medical service of each hospital of the project will be improved and eliminating area differentials in medical service will directly benefit the people in each area. Also, since the proposed hospitals of this project are public medical organs providing free medical service to the poor peoples, these are the only hospitals on which the low income people can rely. Implementation of this project will therefore improve medical service to the inhabitants of the areas.

The proposed hospitals of this project are the provincial hospitals located in 12 regions throughout the nation and the beneficiary population of the service areas of these hospitals is about 27,440,000 people, which means that 46.7% of the entire population of the Philippines will directly benefit from this project.

2) Indirect effects

In connection with supply of the medical equipment in this project, implementation of training on inspection and maintenance as well as procurement of repair tools for the Hospital Maintenance Service of the Department of Health are included. By implementing the foregoing, improvement of the level of the maintenance technicians can be anticipated, repair and maintenance will become possible on equipment hitherto left unrepaired and effective use of equipment will be possible not only of those to be procured in this project but also of existing equipment. Furthermore, raising the technical level of the technicians can also be made through on-the-job training and provision of maintenance and inspection training.

(2) Appropriateness of the project

Studies were conducted on the scope of those benefiting from implementation of this project, and also its scale and effect. As the results, it is considered that implementation of this Project with Japanese Grant Aid Program is appropriate judging from the extent of the effects of the project.

- 1) Those to be benefited from this project are the general public including the poor living in the metropolitan areas and local cities of the Philippines, which makes up 46.7% of the population.
- 2) The objectives of this project is to improve public medical service which is indispensable for basic human life.
- 3) Procurement of equipment in this Project will be made with the principle placed on renewing and supplementing the present equipment of each hospital, and plans are so made to maintain, control and operate this project with the budget, personnel and technology of the Philippines itself.
- 4) Despite the fact that the life of the equipment in the proposed hospitals is greatly exceeded and no longer functionable, replacing and supplementing have not been made over many years because of financial limitation. This is adversely affecting medical service in the hospitals so there is urgent need to procure these equipment.
- 5) Furthermore, this is a plan that is in line with the objectives of the health and medical policy of the Philippines.
- 6) All of the proposed hospitals of this project are non-profit making public organization.
- 7) There is no particular difficulty in implementing this project with Japanese Grant Aid Program.

6-2. Conclusion

In addition to anticipating the major effects as explained, this project will contribute to improving health and medical care of the area inhabitants and will serve a major role in promoting health and medical policies and thus greatly benefit the people of the Philippines.

In undertaking the basic design, careful and thorough studies were made with regard to general situation of the Philippines, and very consideration was also given so that the greatest effect can be obtained from the smallest resources. It can be concluded, therefore, that the Project to be implemented under the Japanese Government's Grant Aid Program is possible and appropriate.

Furthermore, the operation and management of the project can be carried out with the existing personnel, operating cost and technical ability of each hospital, and therefore there should be no problem in implementing this project.

6-3. Recommendations

The problems in each hospital relative to medical equipment are superannuation that renders the equipment unable to fulfil its functions, nonexistence of a responsibility system especially for operation and maintenance in each hospital, and the vagueness of who is responsible for maintenance of the equipment. There are hospitals in which the management and responsibility system for small equipment such as sphygmomanometer, suction units, and instrument sterilizers is unclear although people responsible for comparatively large equipment such as X-ray equipment have been assigned. For this reason, there are cases where equipment that is seems usable are left unrepaired even with the slightest fault. It is recommended that a maintenance responsibility system be established even on small equipment.

It is also desirable for the proposed hospitals to establish a communication system with the Hospital Maintenance Service to enable long usage of procured equipment in good state. It is recommended that a service team be dispatched once every four to six months to each hospital for preventive maintenance and offer guidance on operation of the equipment including procured ones in Phase I.

Lastly, it is considered necessary to improve and strengthen the medical system throughout the Philippines by completing improvement of the remaining provincial hospitals not included in the previous Phase I and present Phase II in the Hospital Service Development Project being promoted by the Philippine Government.

APPENDIX

1. Member List of Survey Team

- | | |
|--|---|
| (1) Dr. Yasuhiro ARASAKI MD. Dispatch and Cooperation Section, Department of International Cooperation, National Medical Center Hospital. | Team Leader |
| (2) Mr. Hiroaki OUKUBO International Training Center's Division, Training Affairs Department, JICA. | Hospital Management |
| (3) Mr. Shin-ichi KIMURA Medical Equipment Specialist, Consultant Division, Binko Ltd. | Chief Consultant (Medical Equipment Planner) |
| (4) Mr. Kenji IWASAKI Medical Equipment Specialist, Consultant Division, Binko Ltd. | Medical Equipment Planner |
| (5) Mr. Junjiro MIKAMI Architect, Consultant Division, Binko Ltd. | Facilities Planner |

2. Survey Schedule

- 2/19 (Tue.) Arriving at Manila by PR-431
Courtesy call on the Embassy of Japan and JICA Philippine Office.
- 2/20 (Wed.) Courtesy call on the Department of Health,
Meeting for arranging the survey.
- 2/21 (Thu.) Survey of Eulogio Rodrigues Sr. Memorial Hospital.
Call on the Department of Health and JICA Philippine Office for arranging new schedule.
- 2/22 (Fri.) Adjustment of survey schedule with the Department of Health.
Call on JICA Philippine Office to report on-going survey.
- 2/23 (Sat.) Survey of Gov. Teofilo Sison Memorial Hospital.
- 2/24 (Sun.) Collection of related data.
- 2/25 (Mon.) Survey of Guagua Provincial Hospital.
Survey of Bulacan Provincial Hospital.
- 2/26 (Tue.) Transfer to Mindro.
Survey of Mindro Occidental Provincial Hospital.
- 2/27 (Wen.) Survey of Mindro Occidental Provincial Hospital.
Transfer to Manila.
- 2/28 (Thu.) Survey of Batangas Provincial Hospital.
- 3/1 (Fri.) Survey of Quezon Memorial Hospital.
- 3/2 (Sat.) Survey of Anders Bonifacio Memorial Hospital.
- 3/3 (Sun.) Collection of related data.
- 3/4 (Mon.) Meeting with Hospital Service.
Report to JICA Philippine Office regarding on-going survey.
- 3/5 (Tue.) Meeting with Hospital Maintenance Service, DOH.
Joining with Government Member.
Call on the Embassy of Japan and JICA Philippine Office.

- 3/6 (Wed.) Discussion and consultation with the Department of Health.
Second survey of Eulogio Rodriguez Sr. Memorial Hospital.
- 3/7 (Thu.) Second survey of Tarlac Provincial Hospital.
- 3/8 (Fri.) Survey of Philippine General Hospital.
Meeting with Hospital Maintenance Service, DOH.
- 3/9 (Sat.) Transfer to Legaspi.
Survey of Albay Provincial Hospital. Stay at Legaspi.
- 3/10 (Sun.) Survey of Sorsogon Provincial Hospital. Stay at Legaspi.
- 3/11 (Mon.) Transfer to Manila. Meeting among the survey members.
- 3/12 (Tue.) Hearing at DOH from the representatives of 18 hospitals
regarding Equipment to be supplied.
Call on JICA Philippine Office regarding on-going survey.
- 3/13 (Wed.) Hearing at DOH from the representatives of 14 hospitals
regarding Equipment to be supplied.
- 3/14 (Thu.) Transfer to Marindugue.
Survey of Marindugue Provincial Hospital.
Stay at Marindugue.
- 3/15 (Fri.) Transfer to Manila.
Meeting with DOH.
Meeting with JICA Philippine Office.
- 3/16 (Sat.) Preparation of draft of Minutes of Discussion.
- 3/17 (Sun.) -ditto-
- 3/18 (Mon.) Review of final draft of the minutes by the survey
members.
- 3/19 (Tue.) Exchange of Signatures of the Minutes of Discussions.
Report to the Embassy of Japan regarding the result of Basic
Design Survey.
- 3/20 (Wed.) Report to JICA Philippine Office regarding the result of
Basic Design survey.
Arriving at Narita by PR-432.

3. Member List of parties concerned in Philippines

Department of Health

| | |
|--------------------------|---|
| Dr. Antonio O. Periquet | Under Secretary |
| Mr. Mario M. Taguiwalo | Under Secretary |
| Dr. Linda L. Milan | Chief, Foreign Assistance Coordination Service |
| Dr. Margarita N. Galon | Chief, Hospital Operation and Management Service |
| Engr. Herminio Dionco | Chief, Hospital Maintenance Service |
| Engr. Rudolfo Malatangay | Hospital Maintenance Service |

Abra Provincial Hospital Bangued, Abra

Dr. Godofredo Gasa

Ilocos Norte Provincial Hospital Laoag city, Ilocos

Dr. Rogelio R. Balbag

Asst. Prov. Health Officer

Gabriela Silang General Hospital Vigan, Ilocos Sur

Dr. Felipe P. Almachar

Nueva Vizcaya Provincial Hospital Bayombong, Nueva Vizcaya

Dr. Cirilo R. Galinez

Aparri Provincial Hospital Aparri, Cagayan

Dr. Wilson O. Puyaoan

Batanes Provincial Hospital Basco, Batanes

Dr. Felipe A. Cablay

Bulacan Provincial Hospital Malolos, Bulacan

Dr. Vewawcio S. Banzon

Pampanga Provincial Hospital Guagua, Pampanaga

Dr. Ignacio D. Valencia

Eulogio Rodrigues Sr. Memorial
Hospital Marikina, Metro Manila

Dr. Ruben C. Flores

Marindugue Provincial Hospital Boac, Marindugue

Dr. Efren J. Labay

Anders Bonifacio Memorial Hospital Trece Martirez City, Cavite

Dr. Oscar L. Cuesta

| | |
|---|---------------------------|
| Mindro Occidental Provincial Hospital Dr. Ernesto B. Valencia Dr. Antonio D. Rebowg | Mamburao, Mindro Occ. |
| Batangas Provincial Hospital Dr. Domingo A. Aguilera | Lemery, Batangas |
| Mindro Provincial Hospital Dr. Ernesto B. Valencia | Calapan, Mindro Oriental |
| Aurora Memorial Hospital Dr. Oscar L. Gudani | Baler, Aurora |
| Puerto Princesa Provincial Hospital Dr. Guillernco Es. Abogado | Puerto Princesa, Palawan |
| Romblon Provincial Hospital Dr. Leila M. Arboleda | Odiongan, Romblon |
| Camarines Norte Provincial Hospital Dr. Nestor F. Santiago | Daet, Camarines Norte |
| Eastern Bicol Medical Center Dr. Victorino C. San Suan | Virac, Catanduanes |
| Masbate Provincial Hospital Dr. Florenda I. Almero | Masbate, Masbate |
| Dr. Rafael Tumbokon Memorial Hospital Dr. Eduardo C. Geraldo | Kalibo, Aklan |
| Delegate Angel Salazar Memorial Hospital Dr. Modolfu T. Ganfin | San Jose, Antique |
| Guimaras District Hospital Dr. Gregorio Sancho | Jordan, Guimaras |
| Congressman Maximino Garcia Memorial Hospital Dr. Galileo G. Pepito | Talibon, Bohol |
| Northern Samar Provincial Hospital Dr. John S. Kam | Catarman, Northern Samar |
| Western Samar Provincial Hospital Dr. Duanito C. De LA Cruz | Catbalogan, Western Samar |

Zamboanga del Sur Provincial
Hospital

Pagadian City, Zamboanga del Sur

Agusan del Sur Provincial Hospital

Patin-ay Prosperidad, Agusan del
Sur

Dr. Manuel M. Angeles

Davao Oriental Provincial Hospital

Mati, Davao Oriental

Dr. Aproniano O. Brion Jr.

Iligan City District Hospital

Iligan City, Lanao del Norte

Dr. Orlando R. Alagar

Lanao del Norte Provincial Hospital

Baroy, Lanao del Norte

Dr. Bonifacio E. Olano

Maguindanao Provincial Hospital

Maganoy, Maguindanao

Dr. Ariadne G. Silongan

IV Minutes of Discussions


MINUTES OF DISCUSSIONS
ON
THE BASIC DESIGN STUDY
ON
THE PROJECT FOR UPGRADING MEDICAL EQUIPMENT
OF PROVINCIAL HOSPITAL (PHASE- II)
IN
THE REPUBLIC OF THE PHILIPPINES

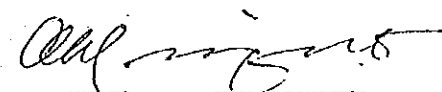
In reponse to the request made by the Republic of the Philippines, the Government of Japan decided to conduct a Basic Design Study on the Project for Upgrading Medical Equipment of Provincial Hospitals (Phase- II) (hereinafter referred to as "the Project") and the Japan International Cooperation Agency (JICA) has sent the Basic Design Team headed by Yasuhiro ARASAKI, M.D., Department of International Cooperation, National Medical Center Hospital, Ministry of Health and Welfare, for the period beginning on February 19th and ending on March 20th 1991.

The Team had a series of discussions with the authorities concerned of the Government of the Republic of the Philippines and has conducted a field survey.

As the result of the discussions and field survey, both parties confirmed the main articles as described on the attached sheets. The Team will proceed with the tasks and prepare the Basic Design Study Report on the Project based on these articles.

Manila, March 19th 1991


Yasuhiro ARASAKI, M.D.
Leader
Basic Design Study Team
JICA


Antonio O. PERIQUET, M.D.
Undersecretary
Department of Health

ATTACHMENT

1. Objectives of the Project

The objectives of the Project is to improve the provincial level health services in the Philippines through procurement of medical equipment for 32 provincial hospitals including one medical center and two district hospitals equivalent in their general levels to the provincial hospitals.

2. Executing Agency

The Department of Health is responsible for execution of the Project.

3. Locations of Provincial Hospitals

The Locations of the Project sites are listed in Annex I.

4. Tentative List of Major Equipment

The equipment will be selected by the Team based on the list requested by the Philippine side and the result of the survey conducted by the Team. The tentative list for each hospital based on discussions in the Philippines is shown in Annex II.

5. Selection Criteria of Equipment

The following criteria will be taken into account in the selection of equipment.

(1) More efficient maintenance

1) The existing capacity

2) Appropriateness with the view to the running cost and available financial resources

3) Procurement of the spare parts and consumables

(2) More frequent use

(3) Priorities in the needs of the target population and the expected roles of the hospital

6. Grant Aid Program

6-1 The concerned authority of the Philippine Government has understood the Japanese Grant Aid System explained by the Team including the principles of use of a Japanese Consultant Firm and Japanese Contractor for the implementation of the Project.

6-2 The Government of the Republic of the Philippines will take necessary measures as listed in Annex III under the condition that the grant aid by the Government of Japan would be extended to the Project.

7. Submission of the Report

The Basic Design Study Report will be submitted to the authority concerned of the Philippines through JICA Philippines Office by August, 1991.

Annex I

Region

| | | |
|-----------------|--|---|
| I | 1. ABRA PROVINCIAL HOSPITAL. | BANGUED, ABRA |
| | 2. ILOCOS NORTE PROVINCIAL HOSPITAL | LAOAG CITY, ILOCOS |
| | 3. GABRIELA SILANG GENERAL HOSPITAL | VIGAN, ILOCOS SUR |
| II | 1. NUEVA VIZCAYA PROVINCIAL HOSPITAL | BAYOMBONG, NUEVA VIZCAYA |
| | 2. APARRI PROVINCIAL HOSPITAL | APARRI, CAGAYAN |
| | 3. BATANES PROVINCIAL HOSPITAL | BASCO, BATANES |
| III | 1. BULACAN PROVINCIAL HOSPITAL | HALOLOS, BULACAN |
| | 2. PAMPANGA PROVINCIAL HOSPITAL | GUAGUA, PAMPANGA |
| METRO MANILA | 1. EULOGIO RODRIGUEZ SR. MEMORIAL HOSPITAL | MARIKINA, METRO MANILA |
| IV | 1. MARINDUQUE PROVINCIAL HOSPITAL | BOAC, MARINDUQUE |
| | 2. ANDRES BONIFACIO MEMORIAL HOSPITAL | TRECE MARTINEZ CITY CAVITE |
| | 3. MINDORO OCCIDENTAL PROVINCIAL HOSPITAL | MAMBURAO, MINDORO OCC. |
| | 4. BATANGAS PROVINCIAL HOSPITAL | LEMERY, BATANGAS |
| | 5. MINDORO PROVINCIAL HOSPITAL | CALAPAN, MINDORO ORIENTAL |
| | 6. AURORA MEMORIAL HOSPITAL | BALER, AURORA |
| | 7. PUERTO PRINCESA PROVINCIAL HOSPITAL | PUERTO PRINCESA, PALAWAN |
| | 8. ROMBLON PROVINCIAL HOSPITAL | ODIONGAN, ROMBLON |
| V | 1. CAMARINES NORTE PROVINCIAL HOSPITAL | DAET, CAMARINES NORTE |
| | 2. EASTERN BICOL MEDICAL CENTER | VIRAC, CATANDUANES |
| | 3. MASBATE PROVINCIAL HOSPITAL | MASBATE, MASBATE |
| VI | 1. DR. RAFAEL TUMBOXON MEMORIAL HOSPITAL | KALIBO, Aklan |
| | 2. DELEGATE ANGEL SALAZAR MEMORIAL HOSP. | SAN JOSE, ANTIQUE |
| | 3. GUIMARAS DISTRICT HOSPITAL | JORDAN, GUIMARAS |
| VII | 1. CONGRESSMAN. MAXIMINO GARCIA MEMORIAL HOSPITAL | TALIBON, BOHOL |
| VIII | 1. NORTHERN SAMAR PROVINCIAL HOSPITAL | CATARMAN, NORTHERN SAMAR |
| | 2. WESTERN SAMAR PROVINCIAL HOSPITAL | CATBALOGAN, WESTERN SAMAR |
| IX | 1. ZAMBOANGA DEL SUR PROVINCIAL HOSPITAL | PAGADIAN CITY, ZAMBOANGA DEL SUR |
| X | 1. AGUSAN DEL SUR PROVINCIAL HOSPITAL | PATIN - AY PROSPERIDAD, AGUSAN DEL SUR |
| XI | 1. DAVAO ORIENTAL PROVINCIAL HOSPITAL | HATI, DAVAO ORIENTAL |
| XII | 1. ILIGAN CITY DISTRICT HOSPITAL | ILIGAN CITY, LANA O DEL NORTE |
| | 2. LANA O DEL NORTE PROVINCIAL HOSPITAL | BAROY, LANA O DEL NORTE |
| | 3. MAGUINDANAO PROVINCIAL HOSPITAL | MAGAN OY, MAGUINDANAO |

Annex II
The Tentative List of Major Equipment

1. Diagnostic Equipment

| | |
|----------------------------|-----------------------|
| Diagnostic X-Ray Equipment | X-ray Accessories Set |
| Ultrasound Scanner | Electrocardiograph |
| Others | |

2. Operating Room and Emergency Room Equipment

| | |
|--------------------------|-----------------------------|
| Major Operating Light | Minor Operating Light |
| Mobile Operating Light | Major Operating Table |
| Orthopedic Surgery Table | Gynecological Surgery Table |
| Minor Operating Table | Anesthesia Apparatus |
| Electro-Surgical Unit | Others |

3. OB&GYN Equipment

| | |
|----------------------------|-------------------|
| Infant Incubator | Phototherapy Unit |
| Clinical Examination Table | Others |

4. Intensive Care Unit Equipment

| | |
|-------------------------|--------------------------|
| Bedside Patient Monitor | I.C.U. Bed |
| Defibrillator | Critical Care Ventilator |
| Portable Suction Unit | Others |

5. Ward Equipment

| | |
|-----------------------|-----------------------|
| Examination Lamp | Portable Suction Unit |
| Orthopedic Bed | Electrocardiograph |
| Instrument Sterilizer | Others |

6. Laboratory Equipment

| | |
|-------------------------|-------------------------|
| Spectrophotometer | Laboratory Autoclave |
| Blood Bank Refrigerator | Laboratory Refrigerator |
| Water Bath | Others |

7. Miscellaneous

| | |
|-----------|--------------------------|
| Ambulance | High Pressure Sterilizer |
| Others | |

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Annex III

1. To ensure prompt unloading, tax exemption, customs clearance at the port of disembarkation in the Philippines and prompt internal transportation of equipment procured under the Grant Aid.
2. To bear the following commissions to the Japanese foreign exchange bank of the banking services based upon the Banking Arrangement.
 - (1) Advising commission of authorization to pay.
 - (2) Payment commission
3. To exempt Japanese Nationals involved in the Project from custom duties, internal taxes and other fiscal levies which may be imposed in the Philippines with respect to the supply of the products and services under the Verified Contracts.
4. To accord Japanese Nationals whose services may be required in connection with the supply of the products and the services under the Verified Contracts such facilities as may be necessary for their entry into the Philippines and stay therein for the performance of their work.
5. To bear all the expenses other than those to be borne by the Grant, necessary for the transportation and the installation of the equipment.
6. To ensure the proper and effective operation and maintenance of equipment purchased under the Grant Aid, and provide the Government of Japan with annual status report of such equipment for the period of five years.

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