

4. MINUTES OF DISCUSSION

(1) Basic Design Study

MINUTES OF DISCUSSIONS
ON
THE BASIC DESIGN STUDY
ON
THE PROJECT FOR THE IMPROVEMENT PLAN FOR
THE DEPARTMENT OF PEDIATRICS AND CHILD HEALTH
OF
THE UNIVERSITY TEACHING HOSPITAL
IN
THE REPUBLIC OF ZAMBIA

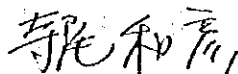
In response to the request from the Government of Zambia, the Government of Japan decided to conduct a Basic Design Study on the Project for the Improvement Plan for the Department of Pediatrics and Child Health of the University Teaching Hospital (hereinafter referred to as "the Project"), and entrusted the Study to the Japan International Cooperation Agency (JICA).

JICA has sent to the Republic of Zambia a study team, which is headed by Mr. Kazuhiko TERAQ, Grant Aid Division, Economic Cooperation Bureau, Ministry of Foreign Affairs, and is scheduled to stay in the country from August 1 to August 30, 1995.

The team has held discussions with the Zambian officials concerned and conducted a field survey at the study area.

In the course of the discussions and field survey, both parties have confirmed the main items described on the attached sheets. The team will proceed to further works and prepare the Basic Design Study report.

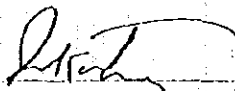
Lusaka, August 9, 1995



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ATTACHMENT

1. Objective

The objective of the Project is to strengthen the diagnosis and treatment capabilities of The University Teaching Hospital's (UTH) Department of Pediatrics and Child Health, and to support outreach activities of UTH, by improvement of the present facilities and providing necessary equipment.

2. Project Area

The project site is located in the Department of Pediatrics and Child Health of UTH. (See ANNEX-I)

3. Responsible and Executing Organization

(1) Responsible Organization for the Project is the Ministry of Health.

(2) Executing Organization of the Project is UTH.

4. Items requested by the Government of Zambia

(1) Extension of A-01 building. (See ANNEX-II)

(2) Construction of the isolation Ward (A-05). (See ANNEX-III)

(3) Provision of Equipment to A-01 and A-05. (See ANNEX-IV)

However, the final components of the Project will be decided after further studies.

5. Japan's Grant Aid System

(1) The Government of Zambia has understood the system of Japan's Grant Aid as explained by the team. (See ANNEX-V)

(2) The Government of Zambia will take the necessary measures described in ANNEX-VI for the smooth implementation of the Project, on condition that the Grant Aid Assistance by the Japanese Government is extended to the Project.

6. Schedule of the Study

(1) The consultants will proceed to further studies in Zambia until August 30, 1995.

(2) JICA will prepare a Draft Basic Design Report and dispatch a mission in order to explain its contents around November 1995.

(3) In case that the contents of the Draft Basic Design Report are accepted in principle, JICA will complete the Basic Design Study Report and send it to the Government of Zambia around April 1996.

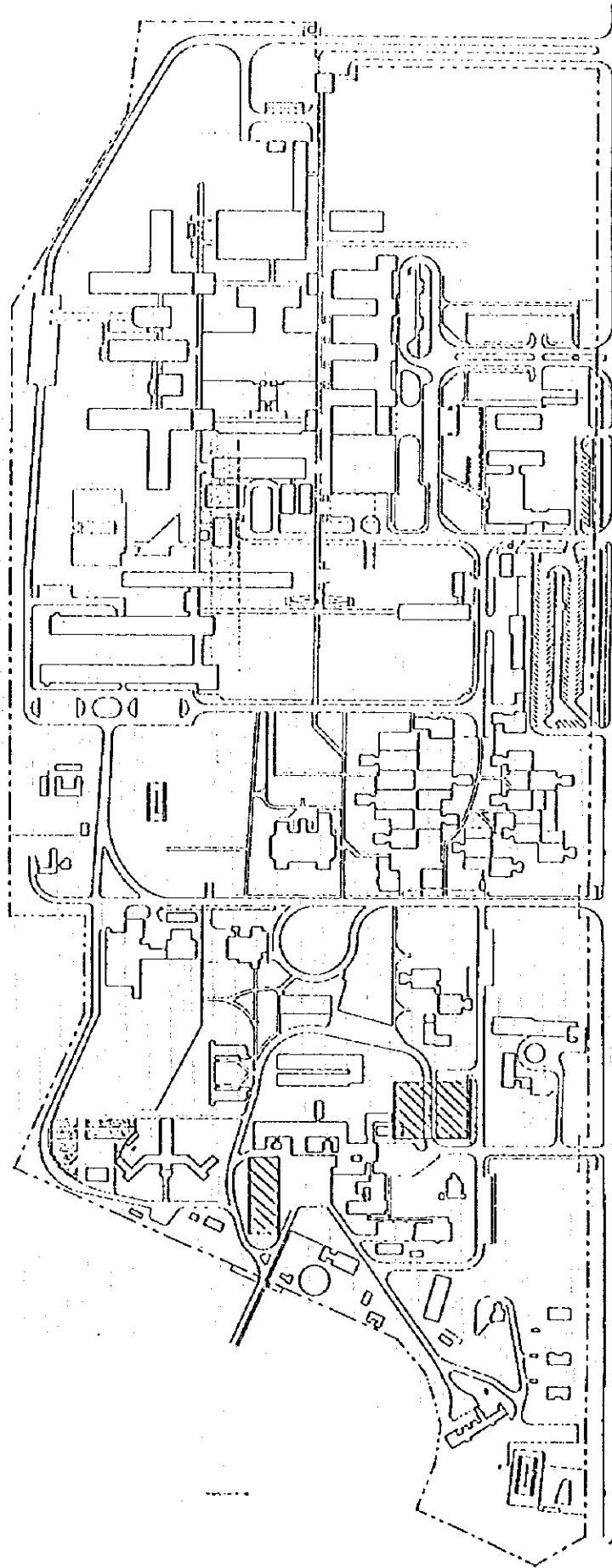
7. Exemption of VAT

It is confirmed that VAT on all imports and domestic purchases of materials, equipment and services under the Project shall be exempted in accordance with the Bulletin No.95/2. (See ANNEX VII)

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Zambia University Teaching Hospital

Project Site



PROPOSED SITE

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ANNEX-II

Extension of Main Ward/Outreach Center

Department	Room Name	Q'TY	Remarks
<Ground Floor>			
Reception	Waiting Hall	1	Bench 50 peoples
	Cashier		
	Registration		
	Maid R.M.	1	
	Social Worker R.M.	1	
	FC	1	
General Outpatient Dept.	Clinic	1	
	Emergency	1	
	Treatment R.M.	1	10 beds
	Observation	1	
	Doctor R.M.	1	
	Nurse Office	1	
	Store	1	
	Security R.M.	1	
	WC	1	10 beds x 5 R.M.
	Admission Ward	Admission Ward (50 beds)	5
Treatment		1	
Nurse Station		1	
Doctor R.M.		1	
Nurse Room		1	
WC		2	
Acute Bay		1	10 beds, Oxygen Piping
Treatment R.M.		1	
Sluice		1	

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Extension of Main Ward/Outreach Center

Department	Room Name	Q'TY	Remarks
Laboratory	Laboratory R.M.	1	40 m ²
Dispensary	Dispensary	1	
	Store	1	
Nutrition Dept.	Kitchen	1	
	Nutrition Office	1	
	Nutrition educational R.M.	1	
Laundry Dept.	Washing R.M.	1	
<1st Floor>			
Administration	Head of the Dept. R.M.	1	
	Secretary R.H.	1	
	Matron R.M.	1	
	Senior Doctor	4	Senior
	Register Common R.M.	1	Register
	PG Common R.M.	2	P.G.
	H.O. Common R.M.	1	H.O.
	Night Duty	1	
	Out reach Activity Center	1	
	Board R.M.	1	
	Lecture Theatre	1	
	Library	1	25 m ²
	Computer R.M.	1	Common use/5 PCs
	Machine R.M.	1	
	House Keeping Office		
	Store	1	
	Shower R.M.	4	
WC	4		

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ANNEX-III

Renovation of Isolation Ward (Newly Constructed)

Department	Room Name	Q'TY	Remarks
Ward for TB	Ward for TB	2	(25 beds)
	Treatment R.M. for TB	1	
	Acute Bay for TB	1	(4 beds)
	TB Patient T/Bath	1	
Ward for measles	Ward for measles	1	
	Treatment R.M. for measles	1	
	Acute Bay for measles	1	
	Measles patient T/bath	1	
Ward for Meningitis	Ward for Meningitis	1	
Other Ward	Other Ward	1	
Administration	Reception	1	
	Doctor R.M.	1	
	Nurse Station	1	
	Toilet for Staff	1	
	Store	2	
Attached Facilities	Deep Well		
	Pump House		
	Water Tank		
	Manifold		Oxygen, Vacuum

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ANNEX-IV

<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
<u>MAIN WARD</u>			
100	RECEPTION (CASHIER)		
101	FILING CABINET	2	A
102	ELECTRIC CALCULATOR	2	C
103	PHOTOCOPY MACHINE (REGISTRATION)	1	C
104	FILING CABINET (WAITING ROOM)	2	A
105	WHEEL CHAIR	3	A
106	STRETCHER	3	A
<u>GENERAL OUTPATIENT CLINIC</u>			
200	(CLINIC)		
201	SPIHYGMOMANOMETER, WALL TYPE	4	A
202	EXAMINATION COACH	4	A
203	X-RAY FILM ILLUMINATOR	4	A
204	FILING CABINET	4	C
205	EXAMINATION LIGHT	4	A
206	FOOT STEP	4	A
207	DIAGNOSTIC SET	4	A
208	FORCEPS, S,M,L	2	C
209	SCISSORS, S,M,L	2	C
210	STAINLESS TRAY, S,M,L	3	A
211	KIDNEY TRAY, S,M,L	3	C
212	DUST BIN	2	A
213	TONGUE DEPRESSOR	4	C
214	DRESSING CONTAINER	2	B
215	LARYNGO SCOPE	1	A
216	BOILING STERILIZER (EMERGENCY)	4	C
217	SPIHYGMOMANOMETER, WALL TYPE	1	A
218	ECG MONITOR	1	A
219	EXAMINATION COACH	3	A
220	X-RAY FILM ILLUMINATOR	2	A
221	FILING CABINET	1	B
222	EXAMINATION LIGHT	2	A
223	SUCTION UNIT	1	A
224	STRETCHER	2	A
225	FOOT STEP	2	A
226	MINOR OPERATING SET	2	A
227	STERILIZER, SMALL (TREATMENT ROOM)	1	A
228	EXAMINATION COACH	2	A
229	INSTRUMENT TROLLEY	2	A
230	NEBURIZER	2	A
231	MEDICINE TROLLEY	1	A
232	STERILIZER, SMALL	1	A
233	FOOT STEP	1	A
234	REFRIGERATOR	1	A
235	IV STAND	3	A
236	SUCTION UNIT	1	A
237	INSTRUMENT CABINET	1	A

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ANNEX-IV

<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
<i>(OBSERVATION ROOM)</i>			
238	BED	4	A
239	PEDIATRIC BED WITH MATTRESS	4	A
240	IV STAND	8	A
300 ADMISSION WARD			
<i>(ADMISSION WARD)</i>			
301	HOSPITAL BED WITH MATTRESS	25	A
302	BEDSIDE CABINET	25	A
303	OVERBED TABLE	25	A
304	PEDIATRIC BED WITH MATTRESS	25	A
305	BEDSIDE CABINET	25	A
306	OVERBED TABLE	25	A
307	STRETCHER	5	A
308	WHEEL CHAIR	5	A
309	IV STAND	3	A
<i>(TREATMENT ROOM)</i>			
310	EXAMINATION COACH	2	A
311	INSTRUMENT TROLLEY	2	A
312	MEDICINE TROLLEY	2	A
313	STERILIZER, SMALL	2	A
314	REFRIGERATOR	1	A
315	IV STAND	3	A
316	SUCTION UNIT	2	A
317	FOOT STEP	2	A
318	WHEEL CHAIR	2	C
319	INSTRUMENT CABINET	1	A
320	MINOR OPERATING SET	2	A
<i>(DOCTOR'S ROOM)</i>			
321	DIAGNOSTIC SET	1	A
322	FILING CABINET	1	A
323	X-RAY FILM ILLUMINATOR	1	A
324	STETHOSCOPE	1	A
<i>(NURSE STATION)</i>			
325	STETHOSCOPE	5	A
326	SPIRYGMOMANOMETER	5	A
327	THERMOMETER	10	A
328	X-RAY FILM ILLUMINATOR	2	A
329	MEDICINE CUPBOARD	1	A
330	REFRIGERATOR	1	A
331	INSTRUMENT CABINET	1	A
332	EMERGENCY CART	2	A
<i>(SLUICE ROOM)</i>			
333	BEDPAN	10	A
334	URINEPAN	10	A
335	BEDPAN WASHER	1	A
400 ACUTE BAY			
<i>(ACUTE BAY)</i>			
401	ICU BED WITH MATTRESS	10	A
402	ECG MONITOR 3-CHANNEL	3	A
404	AMBU BAG	5	A
405	NEBULIZER	5	A

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ANNEX-IV

<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
406	SUCTION UNIT	2	A
407	OXYGEN TENT	1	A
408	IV STAND	10	A
409	EMERGENCY CART W/DEFIBRILATOR	1	A
500	X-RAY (GENERAL X-RAY, EXISTING ROOM)		
504	X-RAY FILM ILLUMINATOR	1	A
505	X-RAY PROTECTIVE SET	1	A
506	FOOT STEP	1	A
510	X-RAY FILM PROCESSOR	1	A
511	NAME PRINTER	1	A
512	CASSETTES	10	A
513	FILM HUNGER (ULTRASOUND ROOM, EXISTING ROOM)	10	A
508	ECG, 3-CHANNEL	1	A
509	EXAMINATION COACH	1	A
600	CLINICAL LABORATORY (LABORATORY)		
601	MICROSCOPE	3	A
602	SPECTROPHOTOMETER	1	A
603	COLORIMETER	1	A
604	ANALYTICAL BALANCE	1	A
605	DIFFERENTIAL LUCITE COUNTER	1	A
606	BLOOD CELL COUNTER	1	A
607	CENTRIFUGE	2	A
608	BLOOD BANK REFRIGERATOR	1	A
609	ULTRA-LOW TEMP. FREEZER	1	B
610	WATER BATH	2	A
611	HOT AIR STERILIZER	1	A
612	STERILIZER	1	A
613	DISTILLER	1	A
700	DISPENSARY (DISPENSARY)		
702	MEDICAL REFRIGERATOR	1	A
900	LAUNDRY (WASHING ROOM)		
901	WASHER & EXTRACTOR	1	A
902	DRYING TUMBLER	1	A
903	LAUNDRY CART	3	A
904	LAUNDRY BASKET	3	A
905	LAUNDRY STORE RACK	2	A
ISOLATION			
1000	T.B. (T.B. WARD)		
1001	HOSPITAL BED WITH MATTRESS.	14	A
1002	BEDSIDE CABINET	14	A
1003	OVERBED TABLE	14	A
1004	PEDIATRIC BED WITH MATTRESS	11	A

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ANNEX-IV

<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
1005	BEDSIDE CABINET	11	A
1006	OVERBED TABLE	11	A
1007	IV STAND	25	A
1008	DOUBLE BASIN WITH STAND (TREATMENT ROOM)	2	A
1009	EXAMINATION COACH	2	A
1010	INSTRUMENT TROLLEY	2	A
1011	MEDICINE TROLLEY	2	A
1012	STERILIZER, SMALL	1	A
1013	SUCTION UNIT	2	A
1014	INSTRUMENT CABINET	1	A
1015	FOOT STEP	2	A
1016	REFRIGERATOR	1	A
1017	INSTRUMENT SET (ACUTE BAY)	2	A
1018	ICU BED WITH MATTRESS	4	A
1019	OXYGEN TENT	1	A
1020	DOUBLE BASIN WITH STAND	1	A
1021	IV STAND	4	A
1100	MEASLES (MEASLES WARD)		
1101	HOSPITAL BED WITH MATTRESS	6	A
1102	BEDSIDE CABINET	6	A
1103	OVERBED TABLE	6	A
1104	PEDIATRIC BED WITH MATTRESS	5	A
1105	BEDSIDE CABINET	5	A
1106	OVERBED TABLE	5	A
1107	IV STAND	5	A
1108	DOUBLE BASIN WITH STAND (TREATMENT ROOM)	1	A
1109	EXAMINATION COACH	2	A
1110	INSTRUMENT TROLLEY	2	A
1111	MEDICINE TROLLEY	2	A
1112	STERILIZER, SMALL	1	A
1113	SUCTION UNIT	2	A
1114	INSTRUMENT CABINET	1	A
1115	FOOT STEP	2	A
1116	REFRIGERATOR	1	A
1117	INSTRUMENT SET (ACUTE BAY)	2	A
1118	ICU BED WITH MATTRESS	4	A
1119	OXYGEN TENT	1	A
1120	DOUBLE BASIN STAND	1	A
1121	IV STAND	2	A
1122	OVERBED TABLE	6	A
1123	PEDIATRIC BED WITH MATTRESS	5	A
1124	BEDSIDE CABINET	5	A
1125	OVERBED TABLE	5	A
1126	IV STAND	10	A
1127	DOUBLE BASIN WITH STAND	1	A

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ANNEX-IV

<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
1200	MENINGITIS (<i>MENINGITIS WARD</i>)		
1201	HOSPITAL BED WITH MATTRESS	6	A
1202	BEDSIDE CABINET	6	A
1203	OVERBED TABLE	6	A
1204	PEDIATRIC BED WITH MATTRESS	5	A
1205	BEDSIDE CABINET	5	A
1206	OVERBED TABLE	5	A
1207	IV STAND	10	A
1208	DOUBLE BASIN WITH STAND	1	A
1300	OTHER DISEASE (<i>OTHER WARD</i>)		
1301	HOSPITAL BED WITH MATTRESS	10	A
1302	BEDSIDE CABINET	10	A
1303	OVERBED TABLE	10	A
1304	PEDIATRIC BED WITH MATTRESS	10	A
1305	BEDSIDE CABINET	10	A
1306	OVERBED TABLE	10	A
1307	IV STAND	10	A
1308	DOUBLE BASIN WITH STAND	10	A
1400	ADMISSION (<i>DOCTOR'S ROOM</i>)		
1401	X-RAY FILM ILLUMINATOR (<i>NURSE STATION</i>)	1	A
1402	STETHOSCOPE	10	A
1403	SPHYGMOMANOMETER	5	A
1404	THERMOMETER	10	A
1405	MEDICINE CUPBOARD	1	A
1406	REFRIGERATOR	2	A
1407	DIAGNOSTIC SET	1	A
1408	FORCEPS, S,M,L	5	A
1409	SCISSORS, S,M,L	5	A
1410	STAINLESS JAR	2	A
1411	KIDNEY TRAY, S,M,L	5	A
1412	DUST BIN	3	A
1414	AMBU BAG	2	A
1415	DRESSING CONTAINER	3	A
1416	INSTRUMENT CABINET	1	A
1417	EMERGENCY CART (<i>SLUICE ROOM</i>)	2	A
1418	BEDPAN	10	A
1419	URINEPAN	10	A
1420	BEDPAN WASHER	1	A
1500	ADMINISTRATION (<i>HEAD OF DEPARTMENT</i>)		
1501	X-RAY FILM ILLUMINATOR (<i>SECRETARY ROOM</i>)	1	A
1502	PHOTOCOPY MACHINE	1	A

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<u>NO.</u>	<u>DEPARTMENT</u>	<u>Q'TY</u>	<u>PRIORITY</u>
	(BOARD ROOM)		
1503	X-RAY FILM ILLUMINATOR	1	A
1504	OVERHEAD PROJECTOR W/SCREEN	1	A
	(DOCTOR'S ROOM-1)		
1505	X-RAY FILM ILLUMINATOR	1	A
	(DOCTOR'S ROOM-2)		
1506	X-RAY FILM ILLUMINATOR	1	A
	(LECTURE THEATER)		A
1508	X-RAY FILM ILLUMINATOR	1	A
	(O.R.A.C.ROOM)		
1507	OVERHEAD PROJECTOR W/SCREEN	1	A
1509	SLIDE PROJECTOR	1	A
1510	PORTABLE TV W/VIDEO RECORDER	1	A
1511	COMPUTER	1	A
	(COMPUTER ROOM)		
1512	COMPUTER	5	A
	(OTHERS)		
1513	MEDICAL GAS PIPING SYSTEM(O ₂ /VACUUM)	1	A
1514	INCINERATOR	1	A

NOTE: QUANTITY OF EQUIPMENT MAY CHANGE ACCORDING TO THE FURTHER STUDY

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Japan's Grant Aid Scheme

1. Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures.

Application: Request made by a recipient country

Study: Basic Design Study conducted by Japan International Cooperation Agency(JICA).

Appraisal & Approval: Appraisal by the Government of Japan and Approval by its cabinet.

Determination of Implementation:

The Notes exchanged between the Governments of Japan and the recipient country

2) Firstly, the application or request for the Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA. The results are then submitted to Cabinet for approval.

Fourthly, the project, once approved by the Japanese Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts etc.

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2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project
- e) Estimation of costs of the Project

The contents of the initial request may not necessarily be approved in their original form as contents of final Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of consultants

For smooth implementation of the study, JICA uses a registered consultant firm (s). JICA then selects a firm(s) based on proposals submitted by interested firms. The firm(s) selected carries out a Basic Design Study and writes a

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report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes. This is in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

3. Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) "The period of the Grant Aid" means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with a consultant firm(s) and a contractor(s) and final payment to them must be completed.

However in case of delays in delivery, installation or construction due to unforeseen factors such as unfavorable weather conditions, the period of the Grant Aid can be further extended for a maximum period of one fiscal year at most by mutual agreement between the two Governments.

4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals"

means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

6) Undertakings required of the Government of the Recipient Country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as the following:

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (5) To exempt Japanese nationals from customs duties, internal taxes such as VAT and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- (6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.

(7) "Proper Use"

The recipient country is required to maintain and use the facilities

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constructed and equipment purchased under the Grant Aid properly and effectively. Furthermore, the recipient country is required to assign staff necessary for this operation and maintenance, as well as bear all the expenses other than those covered by the Grant Aid.

(8) "Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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ANNEX-VI

NECESSARY MEASURES TO BE TAKEN BY THE GOVERNMENT OF ZAMBIA IN THE EVENT THAT JAPAN'S GRANT AID IS EXTENDED.

1. To provide data and information necessary for the Project;
2. To secure, clear, level and reclaim the sites of the Project prior to the Project Implementation, including the removal of the existing obstacles in the ground ;
3. To provide a proper access road to the Project site;
4. To undertake incidental outdoor works, such as gardening, fencing, exterior lighting and other incidental facilities in and around the Project site, if necessary;
5. To construct a road and install such utilities as drainage, electricity, water supply and telephone system to the Project site;
6. To bear the expenses of the two kinds of commissions to the Japanese foreign exchange bank for its banking services based upon the Banking Arrangement (B/A) namely,
 - the advising commission of the "Authorization to Pay (A/P) and
 - the payment commission;
7. To ensure prompt unloading, tax exemption, and customs clearance at the port of disembarkation in Zambia and prompt internal transportation therein of the materials and equipment for the project purchased under the Grant Aid;
8. To exempt Japanese nationals or staff from a third country engaged in the project from customs duties, internal taxes such as VAT and other fiscal levies which may be imposed in Zambia with respect to the supply of the products and services under the verified contracts;
9. To accord Japanese nationals or staff from a third country whose services may be required in connection with supply of the products and services under the verified contracts, such facilities as may be necessary for their entry into Zambia and stay therein for the performance of their work;

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10. To provide necessary permission, licenses, and other authorization for implementing the Project, if necessary;
11. To assign an appropriate budget and staff members for the proper and effective operation and maintenance of the facilities constructed under the Project;
12. To maintain and use properly and effectively the facilities constructed and equipment provided under the Project;
13. To bear all the expenses other than those to be borne by the Grant Aid within the scope of the Project.



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Ministry of Finance

VAT INFORMATION

Bulletin No. 95/2

July 18, 1995

Subject: Technical Assistance Agreements

There are contractual agreements between the Government and various international aid agencies and similar organisations that refer to an exemption from taxes, duties, fees, levies, and other impositions imposed under the laws of Zambia. The Government does not intend to disturb any commitments but administrative mechanisms, intended to be as straightforward as possible, are being introduced to ensure the smooth continuation of these reliefs.

The specific clause(s) in each agreement concerning the scope of any exemption will confirm the precise scope of any relief. The following general guidelines will be applicable concerning importations of goods and the domestic supply of goods and services for the purposes of VAT.

RELIEF FROM VAT ON IMPORTS

At the time of importation, VAT does not apply to goods imported by agencies and organisations for the purposes specifically exempted in their technical assistance agreement with the Government. A copy of the relevant section of the technical assistance agreement providing the tax exemption or a letter quoting the specific provision(s) of the agreement that provides exemption from duties or taxes should accompany the form VAT 200, at the time of importation.

RELIEF FROM VAT ON DOMESTIC PURCHASES

Most technical aid agreements do not provide for an exemption from sales tax (or VAT) in respect of goods purchased in Zambia either for individual experts or for project materials. In those few cases where exemption is provided for in a technical assistance agreement, it is recommended that all agencies and organisations concerned issue a serially numbered purchase order bearing the name of the organisation to obtain an exemption from VAT. The purchase order should be dated and the body of the purchase order should contain an adequate description, including the quantity, of the goods or services being purchased.

The body of the purchase order must also refer to the specific agreement in a manner similar to the following:

This purchase order relates to an exemption from VAT on goods or services acquired for the use of (name of organisation) under (Article number of the agreement and date of agreement) that provides for description of goods exempted .

Signature of Purchaser

INFORMATION FOR REGISTERED BUSINESSES

As a registered business, you are required to obtain an original signed purchase order in support of each supply of taxable sales of goods and services, and also on rentals of goods. VAT may be assessed against registered suppliers who fail to obtain a proper purchase order.

TRANSITION

In the event that an organisation is not currently using a purchase order system, they must provide the supplier with a copy of the relevant section of their agreement concerning tax exemption for each purchase.

NOTE:

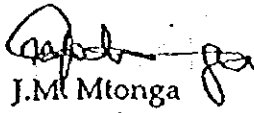
1. This certification process for the acquisition of domestic purchases without the payment of VAT is being introduced for an experimental period and will be subject to review based on operational experience.
2. A blanket purchase order may be acceptable in certain instances. A blanket purchase order must be for all purchases during a specific period where the goods being purchased and approximate quantity is specified. Further guidance is available from the ZRA.
3. Contracts with suppliers for the supply of goods or services are acceptable instead of a purchase order provided they contain an appropriate clause regarding tax exemption.

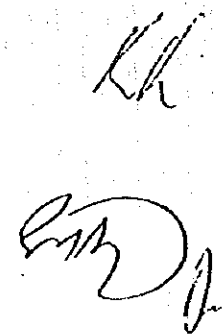
FOR FURTHER INFORMATION

If any practical problems arise or if further information is required, please contact:

The Chief Revenue Inspector
Budget Office
Revenue Section
Ministry of Finance
P.O. Box 50062
LUSAKA

VAT Advice Centre
Zambia Revenue Authority
Profund House, Kabwe Roundabout
Private Bag W136
LUSAKA
Telephone: 226227 or 222717
Fax: 226223


J.M. Mtonga
Permanent Secretary
Ministry of Finance



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(2) Explanation of Draft Report


MINUTES OF DISCUSSIONS
ON
THE PROJECT FOR THE IMPROVEMENT PLAN
FOR DEPARTMENT OF PEDIATRICS AND CHILD HEALTH
OF ZAMBIA UNIVERSITY TEACHING HOSPITAL
IN
THE REPUBLIC OF ZAMBIA
(EXPLANATION OF DRAFT BASIC DESIGN)

In August 1995, the Japan International Cooperation Agency (JICA) dispatched the Basic Design Team on the Project for the implementation plan for the Department of Pediatrics and Child Health of Zambia University Teaching Hospital (hereinafter referred to as "the Project") to Zambia, and through discussions, field surveys, and technical examination of the result in Japan, JICA has prepared the Draft Basic Design of the Project.


In order to explain and to consult the Zambian side on the components of the Draft Basic Design, JICA sent to the Zambia a study team (hereinafter referred to as "the team"), which is headed by Dr. Shigeki ASAHI, Bureau of International Cooperation, International Medical Center of Japan, Ministry of Health and Welfare, and schedule to stay in the country from November 9 to November 16, 1995.

In the course of discussions, both parties have confirmed the main items described on the attached sheets.

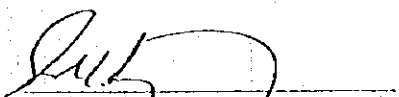
Lusaka, November 15, 1995



Dr. Shigeki Asahi
Leader
Draft Basic Design Explanation team
JICA



Dr. Kawaye Kamanga
Permanent Secretary,
Ministry of Health,
The Republic of Zambia



Dr. G. Katema
Executive Director,
University Teaching Hospital (Zambia)



Mr. M. C. Soko
Director, ETC
NCDP

ATTACHMENT

1. Components of the Draft Basic Design

The Government of Zambia has agreed and accepted in principle the components of the draft basic design proposed by the Team.

2. Japan's Grant Aid System

(1) The Government of Zambia has understood the system of Japan's Grant Aid on ANNEX-I as explained by the team.

(2) The Government of Zambia will take necessary measures described in ANNEX-II for the smooth implementation of the Project, on condition that the Grant Aid Assistance by the Japanese Government is extended to the Project.

3. Further Schedule

JICA will complete the final report in accordance with the confirmed items, and send it to the Government of Zambia around April 1996.

4. Exemption of VAT

It is confirmed that VAT on all imports and domestic purchases of materials, equipment and services under the project shall be exempted in accordance with the Bulletin No. 95/3 (see ANNEX-III).

5. Other Relevant Issues

(1) The Government of Zambia will complete the preparation work such as demolition of existing isolation ward and OPD reception & toilet, supply of electricity, water, telephones to the site for the construction.

(2) UTH take necessary measures for the transfer of patients from the existing isolation ward prior to the demolition work.

(3) UTH will take necessary measures to procure the annual operation and maintenance expenses described in ANNEX-IV, for smooth and effective operation and maintenance of the facilities and equipment procured under the Project, after the completion of the Project (from year of 1997).

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ANNEX-I

Japan's grant Aid Scheme

1. Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures.

Application	:	Request made by a recipient country
Study	:	Basic design study conducted by Japan International Cooperation Agency(JICA)
Appraisal & Approval	:	Appraisal by the Government of Japan and Approval by it's cabinet.
Determination of Implementation	:	The notes exchanged between the Government of Japan and the recipient country

2) Firstly, the application or request for the Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study as a follow up to the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA. The results are then submitted to Cabinet for approval.

Fourthly, the project, once approved by the Japanese Cabinet, becomes official with the Exchange of Notes Signed by the Government of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts etc.



2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:

- a) Confirmation of the background, objectives and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project.
- e) Estimation of cost of the Project.

The contents of the initial request may not necessarily be approved in their original form as contents of final Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.



2) Selection of Consultants

For smooth implementation of the Study, JICA uses a registered consultant firm(s). JICA then selects a firm(s) based on proposals submitted by interested firms. The firm(s) selected carries out a Basic Design Study and writes a report, based upon terms of reference set by JICA.

The consulting firm(s) used for the Study is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes. This is in order to maintain technical consistency and also to avoid any undue delay in implementation should the selection process be repeated.

3. Japan's Grant Aid Scheme

1) What is Grant Aid?

The Grant Aid Programme provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) " The period of the Grant Aid " means the one fiscal year which the Cabinet approves the Project for. Within the fiscal year, all procedures such as exchanging of the Notes, concluding contracts with a consultant firm(s) and a contractor(s) and final payment to them must be completed.

However in case of delays in delivery, installation or construction due to unforeseen factors such as unfavorable weather conditions, the period of the Grant Aid can be further extended for a maximum period of one fiscal year at most by mutual agreement between the two Governments.

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- 4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However the prime contractors, namely, consulting, constructing and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

- 5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan.

This "verification" is deemed necessary to secure accountability to Japanese taxpayers.

- 6) Undertakings required of the Government of the Recipient Country

(1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.

(2) To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.

(3) To secure buildings for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.

(4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.

(5) To exempt Japanese nationals from customs duties, internal taxes such as VAT and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.



(6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of the work.

(7) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and equipment purchased under the Grant Aid properly and effectively. Furthermore, the recipient country is required to assign staff necessary for this operation and maintenance, as well as bear all the expenses other than those covered by the Grant Aid.

(8) "Re-export"

The products purchased under the Grant Aid should not be re-exported from the recipient country.

(9) Banking Arrangement (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payment will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.

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ANNEX-II

NECESSARY MEASURES TO BE TAKEN BY THE GOVERNMENT OF ZAMBIA IN CASE JAPAN'S GRANT AID IS EXTENDED

1. To provide data and information necessary for the Project.
2. To secure, clear, level and reclaim the site of the Project prior to the Project implementation including the removal of the existing foundations in the ground.
3. To provide a proper access road to the Project site.
4. To undertake incidental outdoor works, such as gardening, fencing, exterior lighting and other incidental facilities in and around the Project site, if necessary.
5. To construct and/or install road, drainage and utilities such as electricity, water supply, telephone system to the site.
6. To bear two kinds of commissions to the Japanese foreign exchange bank for its banking services based upon the Banking Arrangement (B/A) namely;
 - the advising commission of the "Authorization to Pay (A/P)" and
 - the payment commission.
7. To ensure prompt unloading, tax exemption, and customs clearance at the port of disembarkation in Zambia and prompt internal transportation therein of the materials and equipment for the Project purchased under the Grant Aid.
8. To exempt Japanese nationals or a staff from a third country engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Zambia with respect to the supply of the products and services under the verified contracts.
9. To accord Japanese nationals or a staff from a third country whose services may be required in connection with supply of the products and services under the verified contracts, such facilities as may be necessary for their entry into Zambia and stay therein for the performance of their work

[Handwritten signatures]

10. To provide necessary permissions, licenses, and other authorization for implementing the Project, if necessary
11. To assign appropriate budget and staff members for proper and effective operation and maintenance of the facilities constructed under the Project.
12. To maintain and use properly and effectively the facilities constructed and equipment provided under the Project.
13. To bear all expenses other than those to be borne by the Grant Aid within the scope of the Project.

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Ministry of Finance

VAT INFORMATION

Bulletin No. 9513**

September 11, 1995

Subject: Diplomats, International Organisations and Technical Aid Agreements

**This bulletin supersedes any previous instructions.

The scope of the tax relief accorded to foreign representatives, and the tax relief accorded under various technical aid agreements has been reviewed following the implementation of VAT. The guiding tax policy concerning VAT is to minimise exemptions and other rules and hence the complexity for VAT registered suppliers in being able to understand and apply the VAT law properly. In view of the variety of technical aid agreements containing tax clauses that are not standardised, a statutory instrument will be issued to provide a broad and easily applied VAT exemption for domestic purchases.

While conferring a VAT exemption to these groups the practical aspect of introducing a point of sale exemption with the burden of proof being placed on the supplier introduces complexity into the VAT system. In this regard a tax policy has been developed that is similar to the tax treatment accorded by many other countries.

DIPLMATIC MISSIONS and TECHNICAL AID AGENCIES

Missions and aid agencies may import goods for official purposes without payment of VAT. Certain domestic purchases are eligible for direct relief from VAT under the following circumstances:

- (a) Missions and aid organisations should issue purchase orders for goods or services they wish to obtain without the payment of VAT. The purchase orders should have the name of the mission or aid organisation pre-printed on them and should be serially numbered. The purchase order should be dated and the body of the purchase order should contain an adequate description, including the quantity, of the goods or services being purchased.
- (b) The purchase order should indicate to the supplier that the goods or services are for the use of the mission or aid organisation, are being paid for by the mission or aid organization and that the goods or services are VAT exempt.

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Example:

I certify that the goods or services being acquired are exempt from the payment of VAT as they are being purchased with mission/aid funds and are for the sole use of the mission/aid organization.

- (c) The purchase order must be signed by a responsible person
- (d) A blanket purchase order may be acceptable in certain instances. A blanket purchase order must be for all purchases during a specific period where the goods being purchased and approximate quantity is specified. Further guidance is available from the ZRA.
- (e) Contracts with suppliers for the supply of goods or services are acceptable instead of a purchase order provided they contain an appropriate clause regarding tax exemption.

Note:

It is the responsibility of the supplier to ensure that the purchaser is entitled to exemption and the granting of any exemption is at the discretion of the supplier. VAT registered suppliers will be liable for the VAT in the event the exemption granted is under fraudulent conditions.

TRANSITION

In the event that an organization is not currently using a purchase order system, they must provide the supplier with a letter that contains the information required on a purchase order. A letter is required for each purchase.

Missions and international aid organisations, for the period July 1, 1995 to September 30, 1995, may issue a letter or purchase order to retroactively obtain tax exemption on acquisitions during this period.

INDIVIDUALS - RELIEF FROM VAT ON IMPORTS

According to international agreements, the following persons are relieved from VAT on imports of all goods and services for official use and in most cases for personal use:

- (a) diplomatic agents and their dependants, and members of the administrative and technical staff and their dependants assigned to diplomatic missions;
- (b) career consular officers and their dependants, honorary consular officers (for their official use only) and consular employees and their dependants; and
- (c) designated officials of international organisations and their dependants. However, VAT relief on purchases for personal use is not available to the service staff, private servants or Zambian nationals employed by a diplomatic mission, consular post or international organization.

At the time of importation, there is a VAT exemption for goods imported by diplomatic organisations and officials for their official purposes (ie. for the use of the mission or the personal use of diplomats).

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INDIVIDUALS - DOMESTIC PURCHASES

VAT registered businesses must charge VAT on taxable sales of goods and services to individuals. The foreign representatives' diplomatic identification cards do not exempt them from paying the VAT.

A refund procedure for the VAT paid on domestic purchases by individuals is being established. Refunds will be limited to the following goods and services.

- (a) Invoices for goods where the invoice is in excess of US \$50.
- (b) Refunds may be claimed for only* the following specific services:
 - electricity;
 - telephone;
 - security.

* This means that VAT paid by an individual on other services such as food or beverages in a restaurant or similar establishment and accommodation in hotels and lodges cannot be claimed for a refund.

Beer, Spirits and Tobacco Products

The current entitlements for the official use by a mission, as well as for personal use by diplomatic staff with respect to the following goods shall continue:

- | | |
|---------------------|-----------------------|
| (a) Beer | - 360 bottles or cans |
| (b) Cigarettes | - 3000 cigarettes |
| (c) Tobacco/Cigar | - 5 kilograms |
| (d) Potable Spirits | - 12 bottles |
| (e) Wines | - 60 bottles |

This entitlement is conditional. Beer, spirits and tobacco products are either for use by the mission or for the personal consumption of diplomatic staff and their guests. Under no circumstances can a charge be made.

ELIGIBILITY FOR RELIEF

The Ministry of Foreign Affairs may from time to time withdraw or restore privileges on imports pertaining to particular diplomatic missions and consular posts and their personnel according to reciprocity. Reciprocity refers to comparable tax relief treatment for Zambian diplomatic organisations and officials posted in foreign countries. Any questions on eligibility should be directed to the Protocol Officer, Ministry of Foreign Affairs.

INFORMATION FOR VAT REGISTERED SUPPLIERS

You have to charge VAT when purchases are made by individuals since their foreign representatives' diplomatic identification cards do not exempt them from paying the VAT, or you from collecting it. Suppliers are required to maintain adequate records to substantiate sale where VAT is not charged. VAT may be assessed on the supplier in

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situations where purchase orders issued by missions or aid organisations are determined not to be valid.

FOR FURTHER INFORMATION

If further information is required, please contact:

The Chief Revenue Inspector
Budget Office
Revenue Section
Ministry of Finance

OR

VAT Advice Centre
Zambia Revenue Authority
Profund House,
Kabwe Roundabout,
Private Bag W136,
LUSAKA

Telephone: 226227 or 222717
Fax: 226223

J.M. Mlonga
Permanent Secretary
Ministry of Finance

ANNEX-IV

ANNUAL OPERATION AND MAINTENANCE EXPENSES

The UTH's operating cost is divided broadly into personnel expenses, facility maintenance and management expenses, and equipment maintenance and management expenses. This project is aimed at rebuilding and expansion of the existing facilities of the Department and therefore there will be no increase of the department's personnel. For this reason, the tentative calculation of the operating cost should be that of the facility maintenance and management expenses and the equipment maintenance and management expenses.

1) Facility Maintenance and Management Expenses (expenses for the existing facilities not included)

Facility maintenance and management expenses 23,516,000 K/year

① Electricity Charges 2,623,000 K/year

It is estimated that this project require an electric load of about 300 kW and so the electricity charges should be calculated on the assumption that contract electricity accounts for about 60 percent of the electric load. In the Zambian power rate structure, hospitals are exempted from basic charges. Monthly number of days of use of facilities will be 30 days

Fig. 2-2 Electricity Consumption per Day

Item	Floor Area (m ²)	Loading factor (x kW/m ²)	Demand factor (x %)	Operating hours (x H)	Daily Consumption (kW)
Lighting fixture /wall socket	4,500	0.03	60	24	1,944
Air Conditioner /ventilator	4,500	0.05	40	12	1,080
Sanitary Equipment	4,500	0.01	30	24	324
Other	4,500	0.01	40	24	432
	4,500	0.02	20	24	432
Total					4,212

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Annual total electricity charges

$$4,212 \text{ kW/day} \times 30 \text{ day/month} \times 12 \text{ months/year} \times 1.73 \text{ kW} = 2,623,234 \text{ K/year}$$

② Water charges

8,426,000 K/year

The following calculations are based on a unit of $10 \text{ //m}^2 \cdot \text{day}$.

Daily water supply

$$4,500 \text{ m}^2 \times 10 \text{ //m}^2 \cdot \text{day} = 45,000 \text{ //day}$$

Monthly water supply

$$45 \text{ m}^3/\text{day} \times 30 \text{ day/month} = 1,350 \text{ m}^3/\text{month}$$

Water charge structure

0 - 100 m ³	238 K/m ³
100 - 170 m ³	370 K/m ³
170 m ³ <	553 K/m ³

Calculation of water charges

$$\begin{aligned} 100 \text{ m}^3 &= 100 \times 238 \text{ K/m}^3 = 23,800 \text{ K} \\ 170 \text{ m}^3 - 100 \text{ m}^3 &= 70 \times 370 \text{ K/m}^3 = 25,900 \text{ K} \\ \underline{1,350 \text{ m}^3 - 170 \text{ m}^3} &= \underline{1,180 \times 370 \text{ K/m}^3} = \underline{652,540 \text{ K}} \\ &= 702,240 \text{ K/month} \end{aligned}$$

Annual total water charges

$$702,240 \text{ K/month} \times 12 \text{ month/year} = 8,426,880 \text{ K/year}$$

③ Telephone Charges

2,044,000 K/year

Telephone charges are calculated on the basis of the daily number of telephone calls (3 minutes/call and 100 calls/day):

Calculation of telephone charges

$$70 \text{ K/3 minutes} \times 100 \text{ calls/day} = 7,000 \text{ K/day}$$

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Annual total telephone charges

$$7,000 \text{ K/day} \times 365 \text{ days} \times 0.80 =$$

2,044,000 K/year

④ Incinerator Running Cost

6,063,000 K/year

The calculation of the running cost is based on the assumption that 0.45 kg of medical waste from one bed per day. Total number of bed is 450 and the rate of operation of incinerator is 70%.

Daily Medical waste

$$450 \text{ beds} \times 0.45 \text{ kg/bed} \cdot \text{day} =$$

200 kg/day

200 kg of medical waste will be incinerated for the period of eight hours per day, which means that 25 kg of waste per hour is incinerated (with 0.25 kW/h incineration capacity). Then the consumption of fuel will be 5.7 l/h.

Calculation of light oil charge

$$5.7 \text{ l/h} \times 8 \text{ h/day} \times 365 \text{ day/year} \times 520 \text{ K/l} \times 0.7 =$$

6,058,000 K/year

Electricity Charge

$$0.2 \text{ kW/h} \times 8 \text{ h/day} \times 365 \text{ day/year} \times 13 \text{ K/kW} \times 0.7 =$$

5,000 K/year

Total 6,063,000 K/year

⑤ Building Maintenance Expenses

4,360,000 K/year

(interior painting repair : once every 5 years)

$$21,800,000 \text{ K/repaint} \div 5 \text{ years} =$$

4,360,000 K/year

2) Equipment Maintenance and Management Expenses (expenses for the existing equipment not included)

Equipment maintenance and management expenses

1,522,000 K/year

① ECG Monitor (4 Nos.)

436,000 K/year

Recording paper

$$109,000 \text{ K/year} \times 4 \text{ Nos.} =$$

436,000 K/year

② 3 Channel ECG. (1 No.) Recording paper	327,000 K/year
③ Blood Cell Counter (Automatic, 1 No.) Reagent etc., Assumption of test per year : 7,500 tests/year	341,000 K/year
④ Distiller change cartridge once every 2 years $182,000 \text{ K/cartridge} \div 2 =$	91,000 K/year 91,000 K/year
⑤ Spectrophotometer (1 No.) Assumption of test per year : 10,000 tests/year	327,000 K/year
Grand total (Facility + Equipment)	25,038,000 K/year

Above total expenses 25,038,000 K/year is about 1.65% of the 1995 budget for the Department of Pediatrics and Child Health (1,512,300,000 K).

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5. COST ESTIMATION BORNE BY THE RECIPIENT COUNTRY

The cost should be borne by Zambian side is the total amount of US\$52,000 (Japanese yen 4.94 million). the breakdown of the cost is as follows.

(1) Before the commencement of the project

- site clearance fee US\$36,000
(including demolition of Isolation Ward)

(2) During the construction of the project

- Electrical supply installation fee US\$10,000
(11.5kV~300kVA)
- Telephone line installation fee US\$6,000

(3) Other

Besides the above, it is necessary for Zambian side to take care the expenses to be imposed on formalities for the Banking Arrangement (B/A) and Authorization to Pay (A/P).

6. LIST OF EXISTING ITEMS OF EQUIPMENT

EQUIPMENT LIST

<u>NO.</u>	<u>NAME OF EQUIPMENT</u>	<u>MAKER & MODEL</u>	<u>STATE</u>	<u>ACTUAL</u>
WARD A01				
1	SUCTION MACHINE	ESCHMANN AP 35	WORKING	
2	BP MACHINE	BRITISH ACCOSSON	WORKING	
3	BP MACHINE	BRITISH ACCOSSON	WORKING	
4	WEIGHING SCALE	BRITISH SECA	WORKING	
5	WEIGHING SCALE	BRITISH SECA	WORKING	
WARD A02				
1	ECHO CAMERA	ALOKA SSD-650CL	WORKING	
2	MONARCH STERILIZER	MONARCHY	WORKING	
3	ECHO COPIER	ALOKA SSZ-303E	WORKING	
4	CORNING DILUTER	CORNING M805	WORKING	
5	AIR COMPRESSOR	CORNING 850	WORKING	
6	PICTURE MONITOR	ALOKA IP-1220B-III	WORKING	
7	COLORIMETER	CIBA CORNING 257	WORKING	
8	VOLTAGE REGULATOR	SVC-24.4	WORKING	
9	CENTRIFUGE	MHC	WORKING	
10	POWER PACK	GRANT KA	WORKING	
11	ALOKA ACCESSORY	SCU-35	WORKING	
12	REFRIGERATOR	GASTRONOM 190	WORKING	
13	DIAGNOSTIC SET	HEINE	WORKING	
	PHOTOTHERAPY	SVC. S. AFRICA	WORKING	NOT LISTED
	SUCTION UNIT	SEWARD VACMASTER 9700	WORKING	NOT LISTED
WARD A04				
1	BP MACHINE	BRITISH ACCOSSON	WORKING	
2	SUCTION MACHINE	ESCHMANN AP 35	WORKING	
3	INFANT INCUBATOR	VICKERS 59	WORKING	NOT WORKING
4	PHOTOTHERAPY UNIT	AIRSHIELD S 400	WORKING	
5	PHOTOTHERAPY UNIT	AIRSHIELD S 400	WORKING	NOT WORKING
	BP MACHINE	BRITISH ACCOSSON	WORKING	NOT LISTED
WARD A05				
1	SUCTION MACHINE	ESCHMANN AP 35	WORKING	
2	BP MACHINE	SMIC	WORKING	
3	WEIGHING SCALE		WORKING	
WARD A06				
1	SUCTION MACHINE	SCHLICO 571/133	WORKING	
2	BP MACHINE	DEKAMET ACCOSSON	WORKING	
3	WEIGHING SCALE	DIST JACOBS	WORKING	
4	MULTI SYSTEM TV	HITACHI	WORKING	
5	MULTI SYSTEM VIDEO	HITACHI M668	WORKING	
6	FILM ILLUMINATOR	MORIYAMA	WORKING	
WARD A07				
1	INFANT INCUBATOR	VICKERS 59	WORKING	NOT WORKING
2	SUCTION MACHINE	ESCHMANN AP 35	WORKING	NOT WORKING
3	INFANT INCUBATOR	VICKERS 59	WORKING	NOT WORKING
4	SUCTION MACHINE	ATROSSOL SV 6	WORKING	

EQUIPMENT LIST

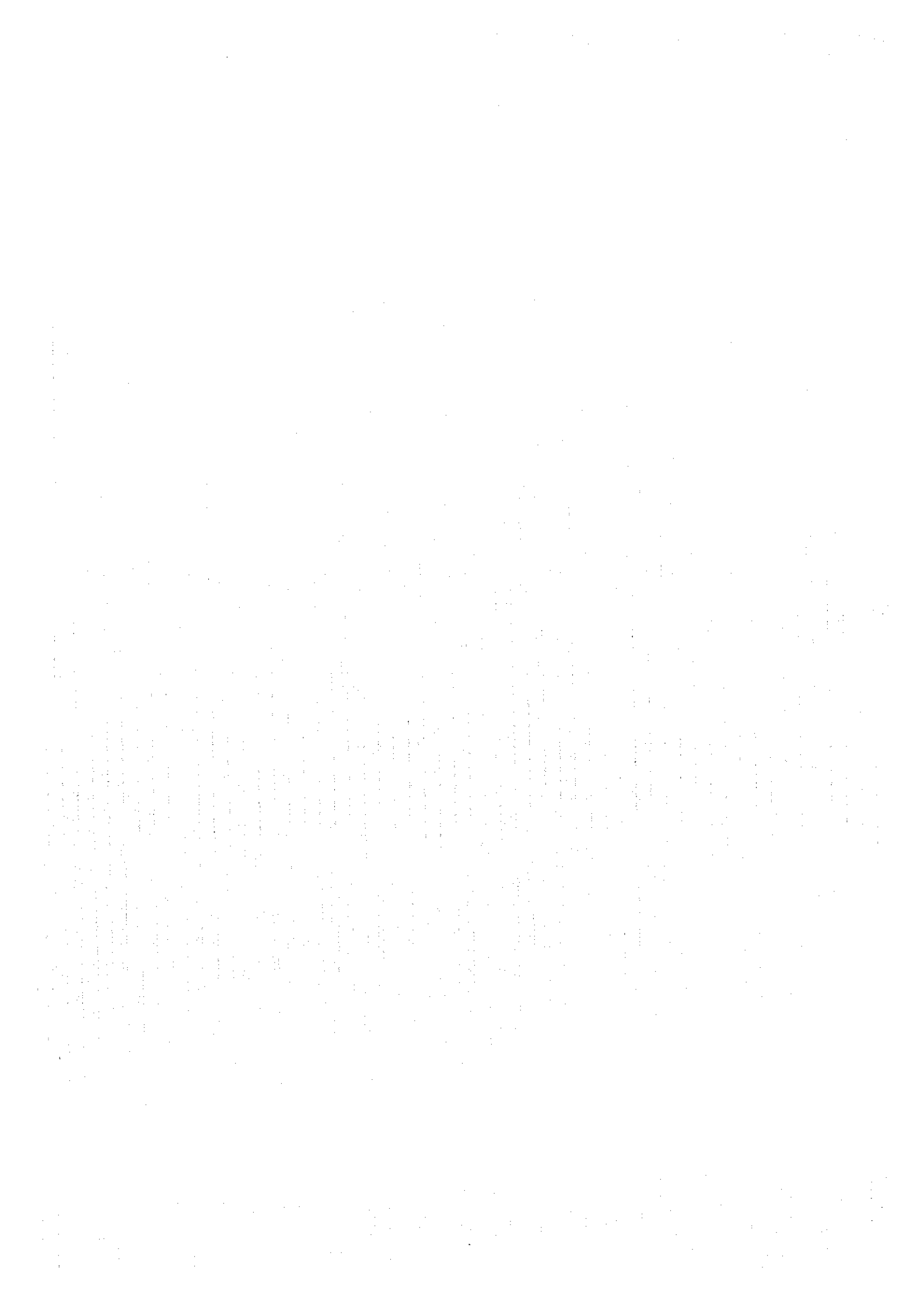
NO.	NAME OF EQUIPMENT	MAKER & MODEL	STATE	ACTUAL
A BLOCK ICU				
1	DIAGNOSTIC SET	BRITISH KJELER	WORKING	
2	BP MACHINE	BRITISH ACCOSSON	WORKING	
3	BP MACHINE	BRITISH ACCOSSON	WORKING	
4	SUCTION MACHINE	ESCHMANN VP 35	WORKING	
5	CARDIAC MONITOR	AIRSHIELD AS7	NOT WORKING	TO ICU (CENTRE)
6	CARDIAC MONITOR	AIRSHIELD AS7	WORKING	TO ICU (CENTRE)
7	CARDIAC MONITOR	S&W DIASCOPE	WORKING	TO ICU (CENTRE)
8	INFANT INCUBATOR	VICKERS 59	WORKING	
9	RESUSCITATOR	BRITISH JONSON	WORKING	
10	OXYGEN TENT	ATOM OX-6	WORKING	
A BLOCK LABORATORY				
1	SIGMA CENTRIFUGE	203	WORKING	
2	GLUCOMETER	5123	WORKING	
3	GLUCOMETER	5123	WORKING	
4	WIFUG CENTRIFUGE	STUDIE-M	WORKING	
5	WIFUG CENTRIFUGE	STUDIE-M	WORKING	
6	HEMOGLOBINOMETER	HB-210	WORKING	
7	VARI-STAIN	SHANDON 21-4	WORKING	
8	COBAS READY	ROCHE	WORKING	
9	COBAS MINGOS	ROSCHE STE	WORKING	
10	BINOCLAR MICROSCOPE	JENALB ZEISS	WORKING	
11	BINOCLAR MICROSCOPE	JENALB ZEISS	WORKING	
12	BINOCLAR MICROSCOPE	JENALB ZEISS	WORKING	
13	BINOCLAR MICROSCOPE	JENALB ZEISS	WORKING	
14	INCUBATOR	JENCONS BINDER	WORKING	
15	REFRIGERATOR	LABLINE	WORKING	
16	CO2 INCUBATOR	NEUTRES	WORKING	
17	pH METER	HI 9020	WORKING	
18	HAEMATOCRIT CENTRIFUGE	HAWKSLEY	WORKING	
19	WATER BATH	GRANT	WORKING	
20	WATER BATH	DECON FST100B	WORKING	
21	HOT PLATE	1212	WORKING	
22	HAND DRYER	A003	WORKING	
23	CELL COUNTER		WORKING	
24	DENLEY MIXER	DENLEY A	WORKING	
25	CELL COUNTER		WORKING	
26	ELECTRONIC BALANCE	ACCLAB 221	WORKING	
HOUSE KEEPER'S ROOM				
1	3 CHANNEL ECG MACHINE	G353	WORKING	TO ICU (CENTRE)
2	RECUM OUP	RECUM VP 230	WORKING	
3	TRANSFORMER FOR OUP	TOYODEN KD-300	WORKING	
4	TOYODEN TRANSFORMER	TOYODEN KD-1500	WORKING	
5	TOYODEN TRANSFORMER	TOYODEN KD-1500	WORKING	
6	TOYODEN TRANSFORMER	TOYODEN KD-1500	WORKING	
X-RAY				
1	X-RAY UNIT	GEC-RS01	WORKING	
2	FILM PROCESSOR (AUTOMATIC)	AR-200	WORKING	

7. REFERENCE

	NAME	PUBLISHED BY	DATE
1	PUBLIC INVESTMENT PROGRAMME 1994-- 1996	Office of the President National Commission for Development Planning	March, 1994
2	Consumer Price Index April 1995 Release	Central Statistical Office	April, 1995
3	QUARTERLY DIGEST OF STATISTICS FIRST QUARTER 1994	Central Statistical Office	1994
4	CONSUMER PRICE STATISTICS THIRD QUARTER 1994	Central Statistical Office	1994
5	SELECTED SOCIO · ECONOMIC INDICATORS 1994	Central Statistical Office	1994
6	EXTERNAL TRADE BULLETIN 1994	Central Statistical Office	July, 1994
7	EMPLOYMENT TRENDS 1985 TO 1993	Central Statistical Office	9 th September, 1994
8	ZAMBIA IN FIGURES 1993	Central Statistical Office	1993
9	SOCIAL DIMENSIONS OF ADJUSTMENT PRIORITY SURVEY II 1993 TABULATION REPORT	Central Statistical Office	1993
10	NATIONAL ACCOUNTS STATISTICAL BULLETIN NO.4	Central Statistical Office	June, 1992
11	COUNTRY PROFILE 1992	Central Statistical Office	1992
12	ZAMBIA IN FIGURES 1992 POPULATION GROWTH RATE	Central Statistical Office	1992
13	NEW ECONOMIC RECOVERY PROGRAMME FOURTH NATIONAL DEVELOPMENT PLAN 1989 - 1993 Volume I, Volume II	Office of the President National Commission for Development Planning	January, 1989

	NAME	PUBLISHED BY	DATE
14	HEALTH PLAN AND BUDGET PERIOD : JANUARY TO DECEMBER 1995 LUSAKA CITY COUNCIL DISTRICT HEALTH MANAGEMENT PLAN	LUSAKA CITY COUNCIL DHMT	Nov. 1995
15	THE PROVISION OF CONSULTING SERVICES FOR HOSPITAL PROJECTS	BRIAN COLQUHOUN	June, 1995
16	BULLETIN OF HEALTH STATISTICS 1989 - 1992 Major Health Trends 1982 - 1992	REPUBLIC OF ZAMBIA MINISTRY OF HEALTH	Oct. 1994
17	NATIONAL STRATEGIC HEALTH PLAN (Investment Plan) 1995 - 1999 FROM VISION TO REALITY	REPUBLIC OF ZAMBIA MINISTRY OF HEALTH	Dec. 1994
18	STRATEGIC PLAN 1994 - 1998 A TIME TO ACT A TIME TO CARE	ZAMBIA NATIONAL AIDS/STD/TB & LEPROSY PROGRAMME	
19	THE SOCIO-ECONOMIC IMPACT OF AIDS ZAMBIA : THE CURRENT HIV/AIDS SITUATION AND FUTURE DEMOGRAPHIC IMPACT	MINISTRY OF HEALTH	May, 1994
20	BETTER HEALTH IN LUSAKA A CHALLENGE TO URBAN PHC AND UTH	LUSAKA URBAN HEALTH TASK FORCE	Jan, 1993
21	B. BLOCK 1993 ANNUAL REPORT	MATRON V. SHAMOYA NURSING OFFICER (B. BLOCK)	
22	SIXTH ANNUAL REPORT FOR THE UNIVERSITY TEACHING HOSPITAL FOR THE YEAR 1993	University Teaching Hospital (Board of Management)	
23	HEALTH FACILITIES IN ZAMBIA	Health Information Unit	July. 1993
24	ZAMBIA HEALTH SECTOR STUDY REVIEW OF THE UNIVERSITY TEACHING HOSPITAL STUDY C	Euro Health Group. Denmark	Dec. 1992
25	NATIONAL HEALTH POLICIES AND STRATEGIES (Health Reforms)	REPUBLIC OF ZAMBIA Ministry of Health	Oct. 1992

	NAME	PUBLISHED BY	DATE
26	MANAGEMENT BRIEF	UTH Board Public Relations Unit	Oct. 1992
27	VALUE ADDED TAX THE VAT GUIDE VAT LEAFLET NO.1	VAT ADVICE CENTRE ZAMBIA REVENUE AUTHORITY	March 1995
28	VALUE ADDED TAX THE VAT LIABILITY GUIDE VAT LEAFLET NO.2	VAT ADVICE CENTRE ZAMBIA REVENUE AUTHORITY	March 1995
29	DEMOGRAPHIC AND HEALTH SURVEY 1992	CENTRAL STATISTICAL OFFICE	March 1993
30	SARHA REPORT SEXUAL AND REPRODUCTIVE HEALTH IN ZAMBIA	MINISTRY OF HEALTH	Dec. 1993



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