STUDY REPORT

ON

THE PROJECT

FOR

PROMOTING CHILD HEALTH (PHASE III)

IN

THE REPUBLIC OF NICARAGUA

January 2003

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Japan International Cooperation Agency

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PREFACE

In response to a request from the Government of the Republic of Nicaragua, the Government of Japan decided to conduct a study on the Project for Promoting Child Health (Phase III) and entrusted the Japan International Cooperation Agency (JICA) to conduct the study with the assistance of the Japan International Cooperation System (JICS).

JICA sent to the Republic of Nicaragua a study team July 16 to August 10, 2002.

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relations between our two countries.

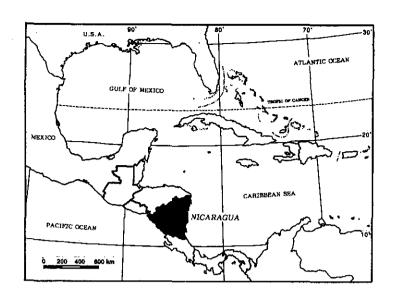
I wish to express my sincere appreciation to the officials concerned of the Government of the Republic of Nicaragua for their close cooperation extended to the team.

January 2003

Takao Kawakami

President

Japan International Cooperation Agency





Location Map



Abbreviations

English/Spanish

BCG Bacille de Calmette and Guerin

CIPS Centro de Insumos para la Salud

C/S Centro de Salud

DPT Adsorbed Diphtheria-Purified Pertusis-Tetanus Combined Vaccine

EPI Expanded Programme on Immunization

GMP Good Manufacturing Practice

HB Hepatitis B

Hib Haemophilus influenza type b

IEC Information, Education and Communication
IMCI Integrated Management of Childhood Illness

MMR Measles Mumps and Rubella Combined Vaccine

MR Measles and Rubella Combined Vaccine
PAHO Pan American Health Organization

P/S Puesto de Salud

RAAN Región Autónoma Atlántico Norte
RAAS Región Autónoma Atlántico Sur

SILAIS Sistemas Locales de Atención Integral a la Salud

UNICEF United Nations Children's Fund

WHO World Health Organization

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Chapter1 Background of the Project

1-1 Background of the Project

This Project ("the Project") was requested as the third phase following the Project for Promoting Child Health (Phase I) ("the Phase I Project") implemented in 1998 and the Project for Promoting Child Health (Phase II) ("the Phase II Project") in 2000.

The objective of the two Projects implemented was to support the implementation of the Expanded Program on Immunization (EPI) and the Integrated Management of Childhood Illness (IMCI) when the Ministry of Health of Nicaragua was in financial straits in the wake of Hurricane Mitch. In the two Projects MMR vaccine¹, pentavalent vaccine², and EPI related equipment (syringes, cold chain equipment and so on) necessary for the implementation of the EPI were procured. At the same time, the essential drugs needed were also procured in the Projects to reduce infant mortality and improve the health of mothers in 9 SILAIS, for post-disaster restoration and the implementation of the IMCI. Although these Projects produced good results, the Nicaraguan government is forced to be on a tight budget under the structural adjustment policies, and increases in social public investment were limited. Recently a lack of medical drugs has been quite noticeable, and the state of health and medical care in Nicaragua is so serious that the country has no choice but to request emergency support from donor countries.

This grant aid intend to supply the funds for the procurement of cold chain equipment and essential drugs to primary health facilities in 17 SILAIS throughout Nicaragua, with the aim of promoting comprehensive management of infant health under the IMCI, based on the National Policy of Health in Nicaragua 1997-2002, the Modernization Plan on Health Sector, and the Strengthened Growth and Poverty Reduction Strategy.

Measles Mumps and Rubella Combined Vaccine

² Diphtheria Tetanus Pertussis (DTP) + Hepatitis B - Haemophilus influenza type b vaccine

Chapter2 Content of the Project

2-1 Basic Concept of the Project

This grant aid will supply the funds for the procurement of cold chain equipment and essential drugs to strengthen the IMCI based on the National Policy of Health 1997-2002 of Nicaragua, the Modernization Plan on Health Sector, and the Strengthened Growth and Poverty Reduction Strategy.

The original request submitted by the recipient country is shown below, based on which a study was carried out.

Table 2-1 Original Request (Essential Drugs)

	Equipment	Requested	Quantity
1	Benzylpenicillin (Penicillin G)	200,000	vials
2	Benzylpenicillin procaine	1,000,000	vials
3	Benzylpenicillin benzathine	215,000	vials
4	Dicloxacillin	126,000	bottles
5	Amoxicillin, Oral suspension	125,000	bottles
6	Amoxicillin, Capsule	3,500,000	capsules
7	Chloramphenicol sodium succinate	15,000	vials
8	Gentamycin sulfate	72,000	ampoules
9	Sulfamethoxazole+Trimethoprim, Syrup	420,000	bottles
10	Sulfamethoxazole+Trimethoprim, Tablet	5,000,000	tablets
11	Nystatine	48,000	bottles
12	Chloroquine phosphate	1,600,000	tablets
13	Albendazole, Suspension	90,000	bottles
14	Albendazole, Tablet	1,200,000	tablets
15	Saibutamol sulfate (Albuterol), Syrup	273,000	bottles
16	Salbutamol sulfate (Albuterol), Aerosol Inhalation	15,000	bottles
17	Ringer-Lactate Solution(Hartman)	65,000	bottles
18	Isotonic sodium chloride solution	45,000	bottles
19	Water for injection	1,215,000	ampoules
20	Oral rehydration salts (ORS)	1,620,000	bags
21	Ritodrine	4,500	ampoules
22	Paracetamol (acetoaminofen)	650,000	bottles
23	Dexamethasone sodium phosphate	25,000	vials
24	Prednisolone	800,000	tablets
25	Retinol(VitaminA)	12,000	bottles
26	Ferrous sulfate	2,000,000	bottles

Table 2-2 Original Request (EPI related equipment)

	Equipment	Requested Quantit
1	MMR vaccine	150,000 vials
2	Pentavalent vaccine	182,000 vials
3	Disposable Syringe	332,000 pieces
4	Safety Box	3,400 boxes
5	Solar Refrigerator	20 units
6	Solar Refrigerator (Large size)	3 units
7	Vaccine Carrier	2,000 pieces
8	ice Pack	8,000 pieces

Table 2-3 Original Request (Medical Equipment for infant)

	Equipment	Requested Quanti
1	Nebulizer	65 units
2	Weight Scales for infant	60 units
3	Resuscitator bag for infant	60 sets
4	Diagnostic set (ear and Eye) for infant	60 sets
5	Laryngoscope set for infant	60 sets
6	Tracheal Tube 2.5mm	300 pieces
7	Tracheal Tube 3mm	300 pieces

2-2 Basic Design of the Requested Japanese Assistance

2-2-1 Design Policy

(1) Basic policy

The objective of the Project is to promote the EPI activity in Nicaragua and the comprehensive management of infant health under the IMCI, following that of the Phase I and Phase II Projects. The Project shall cover the following.

1) Target population

The Project shall cover mainly infants aged from 0 to 4 years old (approximately 820,000 infants) under IMCI activity, as well as mothers including pregnant and parturient women (approximately 200,000 women).

2) Target area

17 SILAIS throughout Nicaragua shall be covered by the Project. The following facts were taken into consideration in determining the target area. The 9 SILAIS implementing IMCI were covered in the Phase I and Phase II Projects at first, but the IMCI was extended to 17 SILAIS later on. It was finally determined that the drugs would be used in all 17 SILAIS, after the application for the drugs procured under the Phase I and Phase II Projects to be used in the 17 SILAIS was submitted to the Japanese Embassy in Nicaragua.

3) Items to be procured

(a) Cold chain equipment

The solar refrigerators procured under the Phase I and Phase II Projects are being put to satisfactory use. However there is still an absolute shortage of refrigerators for vaccines at the local health posts, and what there are need to be replaced.

In Nicaragua a study on needs relating to refrigerators for vaccines was conducted in 1997. Based on that study, the Project selected 23 health posts from non-electrified areas that satisfied the following conditions for the procurement of refrigerators 1) where new health facilities are to be established, 2) with a population of 500 or more, 3) with a sufficient number of health and medical workers, or 4) where the existing gas or kerosene refrigerators are out of order and need replacement.

In the original request, 2 types of refrigerators having different capacities were requested. However as refrigerators of larger capacity (approximately 85 liters) for use at 3 health facilities have already been procured with the support from the Pan American Health Organization (PAHO) or the area in which the health facilities locate has been electrified, the request was withdrawn. A request was made only for refrigerators of smaller capacity (approximately 35 liters), for new health posts in non-electrified areas or to replace the existing kerosene or gas refrigerators being used in non-electrified areas.

In Nicaragua, PAHO recommends solar refrigerators when the absorption type (kerosene and gas) refrigerators are replaced, and therefore it is considered appropriate to request solar refrigerators as replacements.

As for specifications, the equipment procured shall meet the WHO/UNICEF standards. As a national MR³ immunizations campaign is planned in addition to regular vaccinations, equipment with a minimum vaccine storage capacity of 30 liters shall be selected, in order to reduce the frequency of the transportation of vaccines from the SILAIS and reduce the burden of transportation.

Many of the existing vaccine carriers are badly deteriorated and damaged. Vaccine carriers are essential for transporting vaccines from health centers (C/S) to health post (P/S) or for outreaching vaccinations in areas with poor access to a health facility. They are therefore judged to be necessary items.

³ Measles and Rubella Combined Vaccine

As for specifications, taking the National Campaign into consideration, vaccine carriers with a minimum vaccine storage capacity of 2.5 liters shall be procured. Since even at present the carriers are used for 2 days or more consecutively, replacement icepacks shall be provided as an accessory. Vaccine carries must satisfy the WHO/UNICEF standards.

The distribution plan is shown below. (Tables 2-4 and 2-5.)

Table 2-4 Distribution Plan for Solar Refrigerators

SILAIS	Municipio	Health Facility	Quantity
Воасо	Camoapa	P/S Plantanal norte	1
	San Iorenzo	P/S El Incendio	1
Carazo	Sn. Marcos	P/S Dulce Nombre de Jesús	1
Chinandega	Somotillo	P/S Jiñocuago	1
Esteli	La trinidad	P/S Licory	1
	San juan de limay	P/S El Palmar	1
	Esteli	P/S Miraflor	1
		P/S El Coyolito	1
		P/S Isiqui	1
León	El sauce	P/S El Guacal	1
	El jicaral	P/S Censo Uva	1
		P/S Abra Vieja	1
Matagalpa	Paiwas	P/S Jesús Bermúdez (San Pedro del Norte)	1
Nueva Segovia	Quilali	P/S Manchones	1
	El jicaro	P/S La Jumaica	1
		P/S El Zapote	1
	Macuelizo	P/S El Suyatal	1
	Jalapa	P/S Tatasli	1
		P/S Santa Cruz	1
		P/S La Estancia	1
		P/S Soloni	1
	Murra	P/S Cedrales Arriba	1
R.A.A.S	Bluefields	P/S Monkey Point	1
Total			23

P/S: Puesto de Salud

Table 2-5 Distribution Plan for Vaccine Carriers

SILAIS	Number of Target Municipio	Number of Target Health Facilities	Quantity
Boaco	6	14	50
Carazo	8	32	80
Chinandega	12	87	150
Chontales	11	57	105
Esteli	6	45	90
Granada	4	34	80
Jinotega	8	52	150
León	11	94	200
Madriz	9	25	90
Managua	17	26	220
Masaya	7	32	80
Matagalpa	15	70	150
Nueva Segovia	12	45	130
R.A.A.N	5	43	120
R.A.A.S	7	35	100
Rio San Juan	4	36	100
Rivas	9	38	100
CENABI	-	•	5
TOTAL	151	765	2,000

(b) Nebulizers

Acute respiratory disease is the main illness affecting infants under 5 years old, and for the treatment of bronchial asthma, nebulizers are essential and used very frequently. At some health facilities, 25 to 30 patients a day line up for a total of 3 times inhalation treatments, each treatment lasting 15 minutes.

According to data on existing equipment submitted by Ministry of Health (see Appendix 7), there are 526 nebulizers in the entire country of Nicaragua and an additional 427 nebulizers are necessary. 65 nebulizers of which shall be procured by the Project: 36 health facilities that have no nebulizer at present, 7 health facilities whose existing nebulizers are broken and cannot be used, 6 health facilities that have some nebulizers but cannot cope with patients because of the breakdown of a part of them, and 16 health facilities whose existing nebulizers are working well, but even so those cannot cope with patients sufficiently, have been selected as having an urgent need.

The distribution plan for nebulizers is shown in Table 2-6. As for specifications, ultrasonic nebulizers with a nebulizing rate of 3 ml/min or more, which allow the medication to work more effectively on the bronchial tubes, shall be procured.

Table 2-6 Distribution Plan for Nebulizers

SILAIS	Municipio	Health Facility	Quantity	The quantity and the condition of the existing equipment	Total
Boaco	Boaco	P/S Boaco Viejo	1	None	
		C/S Ramón Guillen Navarro	11	None	_
	I	HP José Nieborowsky	2	None	6
	Santa Lucia	C/S Santa Lucia	1	Good:3	
	Teustepe	C/S Testepe	1	Good:2	1 _
Carazo	Jinotepe	P/S Guisquiliapa	1	Out of order: 1	
		P/S Huehuete	1	Out of order: 1	1
	La Conquista	C/S La Conquista	1	Good:1	7
	Diriamba	C/S Diriamba	2	Out of order: 1	1
	El rosario	C/S El Rosario	1	Out of order: 1, Good:1 Total:2	-[
	San Marcos	C/S San Marcos	1 1	Good:1	-
Chinandega	El Realejo	C/S El Regiejo	1 1	None	
011111111111111111111111111111111111111	Santo Tomas del Norte	C/S Santo Tomas del Norte	 	None	- 2
Chontales	Juigalpa	P/S San Francisco Zona # 1	1 1	None	 -
CHOIRAIGS	El Rama	C/S La Esperanza	 	Good:1	4
		C/S Santo Domingo	1	Good:1	5
	Santo Domingo				⊣ °
	San Pedro de Lovago	C/S San Pedro de Lovago	1 1	Good:1	-
	Nueva Guinea	P/S Los Angeles	1 1	None	
Estelí	Estelí	C/S Estelf	2	None	-1
		P/S El Regadio	1 1	None	.] 4
	San Juan de Limay	C/S Limay	1 1	Good:1	<u> </u>
Granada	Granada	C/S Palmira	1 1	Out of order: 1, Good:1 Total:2	_ 2
	Nandaime	C/S Romel Carrasquilla	1 1	None	
Jinotega	Jinotega	C/S Jinotega	1	None	
		P/S Ernesto Acuña	1	None	4
	El Cua	P/S Pedernales	1	None	1 .
	Wiwiff	C/S WIwilf	1	None	1
León	El Jicaral	C/S El Jicaral	1 1	Out of order: 1	
	Mina Limón	C/S Roberto Cortés Mina Limón	1	Out of order: 1, Good;1 Total:2	3
	Santa Rosa del Peñón	C/S Santa Rosa del Peñón		Out of order:1, Good:1 Total:2	- ~
Madriz	Somoto	P/S La Playa	1 1	None	+
Madit	San Juan del río Coco	C/S San Juan del Río Coco	1 1	Good:3	- 3
			 		- '
	Yalagûina	C/S Yalagúina		Out of order: 1	 -
Managua	Francisco Bultrago	C/S Francisco Buitrago	1 1	Good:2	
	San Francisco Libre	C/S Francisco libre(Matamoros)	1 1	Good:2	
	San Rafael del Sur	C/S San Rafael del Sur	2	Out of order: 1, Good:1 Total:2	_ 8
		C/S Ingenio Julio Bultrago	1 1	None	4
	Ticuantepe	C/S Ticuantepe	1 1	Out of order: 1, Good:1 Total:2	_}
	Villa Carlos Fonseca	P/S Nandayosy	1	None	_
		P/S El Valle	1 1	None	<u> </u>
Masaya	Masaya	P/S Las Flores	1 1	None	
	La Concepción	C/S La Concepción	1	Out of order: 2	4
	San Juan de Oriente	C/S San Juan de Oriente	1	Good:2	
	Tisma	C/S Tisma	1	Good:1	7
Nueva Segovia	Ocotei	P/S Nora Astorga	1	None	
		P/S Luis Castillo	1	None	4
	Macuelizo	P/S Julio Cesar Martinez	1 1	None	-J
	Murra	C/S Murra	+ · · · · · · · · · · · · · · · · · · ·	None	-
RAAN	Waspam	C/S Oswaldo Padilla	 	Out of order: 2	 -
I TOTAL	Bonanza	P/S Nueva Esperanza	 	None	- 2
RAAS		C/S Juan Manuel Morales	1 1	None	+
N~49	Bluefields Com Island				4 .
	Com Island	C/S Corn island	1 1	None	4
		P/S La Islita	1	None	
	La Cruz de Río Grande	P/S San Pedro del Norte	1 1	None	 -
Rio San Juan	El Castillo	C/S El Castillo(Camilo Diaz)	<u> </u>	Out of order: 1, Good:1 Total:2	. 2
	El Almendro	P/S La flor	1	None	
Rivas	Rivas	P/S Veracruz	1	None	_\
	Tola	P/S San Ignacio(German P. O.)	1	None	_
	Buenos Aires	C/S Buenos AiresSan Ignacio	1	None	5
	Cárdenas	P/S Sapoa(Ernesto Guevara)	1	None	-1
		P/S Colon	1	None	7

(c) Essential drugs

The items requested are drugs for the IMCI and those drugs are the most needed at the primary level, such as C/S and P/S. These items are used mainly for the treatment of pneumonia, laryngitis and tonsillitis, which are the acute respiratory infections most prevalent among infants under 5 years old in Nicaragua, plus acute diarrhea. It is considered appropriate for these to be procured by the Project.

The quantity necessary for a year at C/S and P/S in the 17 SILAIS throughout Nicaragua shall be procured.

The quantity requested is the total of the amount that each SILAIS requested to the Ministry of Health for use in at C/S and P/S in 2002. However, in view of the past records of annual consumption this quantity is considered excessive for some items, and the quantity considered appropriate for procurement by the Project shall be looked into.

From a comparison of the consumption trends for the items in question over the past 3 years (1999, 2000, 2001), there is a tendency to increased use for 19 items and a tendency to unchanging or falling use for 8 items. In the past 5 years, the number of outpatient cases of major diseases in infants under 5 years old has almost remained at the same level, and it is difficult to imagine that consumption of the drug will continue to increase forever, even in the case of drugs for which there is a tendency for an increase in annual consumption. On the other hand, a deterioration of the environment, through natural disaster or an infectious epidemic, may cause a rapid rise in demand; and with Nicaragua's financial straits there is the danger that the budget of the Ministry of Health might not cover a shortage of drugs. As the quantity of the drugs of which annual consumption is increasing is 1.3 to 1.4 times more compared to those of the previous year, in the Project a quantity 1.5 times the maximum consumption of the past 3 years will be considered the upper limit. If the quantity requested is less than 1.5 times the annual maximum consumption, the quantity requested shall be taken as the upper limit.

The results of deliberations based on the above are shown in Table 2-7.

Of the essential drugs procured under the Phase I and Phase II projects, 6 items which were determined to be priority "B" at the time of the signing of the minutes had a distribution rate of less than 50%, (in August 2002, which is 1 year and 3 months after delivery of the equipment procured under Phase II). However, procurement of these items is recognized to be necessary for the following reasons: 1) the Nicaraguan government promised in the minutes to use these drugs before the expiry date, 2) distribution of 5 items is expected to be completed by the end of 2002 and of the remaining 1 item by April 2003, and 3) from 2003 onwards no donors have promised to provide aid for drugs, and significant trouble in the procurement of drugs is forecasted.

The items shall be products made by manufacturers who have obtained the Good Manufacturing

Practice (GMP)⁴ specifying the standards of production management and quality control regulated in the manufactured countries. The products must conform to the United States Pharmacopoeia (USP)⁵, British Pharmacopoeia (BP), and European Pharmacopoeia (EP).

Table 2-7 Procurement Plan of Essential Drugs

No.	Equipment	Consumption in 1999	Consumption in 2000	Consumption in 2001	One and a half times of the largest Consumption within the past three years	Revised Requested Quantity in the Minutes	Quantity in the project	Priority
1	Benzylpenicillin (Penicillin G)	132,950	117,573	108,009	199,425	349,200	199,500	Α
2	Benzylpenicilin procaine	924,023	1,182,413	744,319	1,773,620	1,175,600	1,175,600	В
3	Benzylpenicillin benzathine	178,391	233,132	281,047	421,571	364,600	364,600	A
4	Dicloxacillin	142,395	151,569	178,973	268,460	219,800	219,800	A
5	Amoxicitin, Oral suspension	59,086	106,228	133,512	200,265	337,800	200,300	A
6	Amoxicilin, Capsule	2,822,879	3,284,293	4,014,878	6,022,314	4,901,500	4,901,500	A
7	Chloramphenicol sodium succinate	2,989	8,162	12,511	18,767	34,200	18,800	В
6	Gentemycin sulfate	54,058	62,678	108,875	163,313	177,300	163,400	В
9	Sulfamethoxazole+Trimethoprim, Syrup	325,635	391,307	545,329	817,994	640,900	640,900	В
10	Sulfemethoxazole+Trimethoprim, Tablet	4,718,342	5,900,691	7,064,357	10,596,536	9,185,800	9,185,800	A
11	Nystatine	34,156	36,240	63,792	95,688	100,000	95,700	A
12	Chioroquine phosphate	5,742,410	7,894,276	6,176,994	11,841,414	8,477,800	8,477,800	A
13	Albendazole, Suspension	28,750	81,602	157,097	235,646	265,700	235,700	A
14	Albendazole, Tablet	867,300	0	0	1,300,950	1,630,800	1,301,000	A
15	Salbutamol sulfate (Albuterol), Syrup	237,856	313,571	328,830	493,245	431,500	431,500	В
16	Salbutamoi sulfate (Albuterol), Aerosol Inhelation	8,201	12,949	18,679	28,319	26,300	26,300	A
17	Phytomenadion	13,094	17,504	11,804	26,256	38,600	26,300	A
18	Glucosa(Dextrosa Monohydorate)	52,564	57,251	70,131	105,197	90,500	90,500	A
19	Ringer-Lactate Solution(Hartman)	49,739	50,071	47,807	75,107	109,400	75,200	В
20	isotonic sodium chloride solution	34,873	42,682	48,447	69,671	95,900	69,700	A
21	Water for injection	469,018	1,298,819	757,198	1,948,229	2,034,100	1,948,300	A
22	Oral rehydration salts (ORS)	1,168,423	1,482,477	2,261,319	3,391,979	2,580,000	2,580,000	Α
23	Oxytocin	11,484	16,222	20,055	30,083	40,300	30,100	A
24	Retinol(ViteminA)	9,616	5,193	12,269	18,404	22,200	18,500	Α
25	Paracetamoi (acetoaminofen)	575,206	B32,754	836,192	1,254,288	961,700	961,700	Α
26	Dexamethasone sodium phosphate	11,763	18,760	31,292	46,938	64,400	47,000	Α
27	Hydrocortisone sodium succinete	14,923	17,058	9,381	25,587	45,700	25,600	A
28	Prednisolone	707,484	870,438	670,127	1,305,654	1,845,800	1,305,700	A

(d) Others

A request for other equipment included in the original request was withdrawn by the Nicaraguan side. Vaccines, syringes, and safety boxes are not included in the Project for the following reasons.

a) MMR and pentavalent vaccines

These vaccines were requested for the regular vaccination of infants aged 1 year (MMR vaccine) and less than 1 year (pentavalent vaccine). Nicaragua has procured the other vaccines

⁴ Good Manufacturing Practice: Production and quality control standards of drugs

⁵ Pharmacopoeia: The medical standards specified under the authority of a government for the proper properties and quality of drugs used for medication etc.

for EPI by itself, using the PAHO revolving fund, and for 2002 and 2003 MMR and pentavalent vaccines will also be procured using the same fund. If the Project is implemented, the procured vaccines will arrive Nicaragua in 2004. As the budget for MMR vaccines in the previous year (2003) and the year before (2002) that have been approved, it is thought that the budget for 2004 will also be approved (Refer to Table 2-8).

Table 2-8 Procurement Record and Plan for MMR vaccine

(unit: dose)

	1998	1999	2000	2001	2002	2003
Japan	-	-	700,000	182,000	-	-
Ministry of Health	450,000	10,000	50,000	100,000	200,000	200,000
Total	450,000	10,000	750,000	282,000	200,000	200,000
Target population for Immunization (Immunization rate)	164,502 (100%)	198,934 (122%)	666,896 (104%)	195,593 (120%)	(199,000)	(199,000)
Carried forward Vaccine Quantity* (In round figures)	(285,000)	(186,000)	(269,000)	(355,000)	(356,000)	(357,000)

(Source: Ministry of Health)

*MMR vaccine was introduced in May, 1998. The targets of immunization are one-year-old children except for 2002. In 2002, the targets are from one year old to less than four years old as MMR campaign was held. The numbers inside () are results of a trial calculation.

In addition, the prequalified vaccines by WHO are manufactured by 3 companies, Chiron, Aventis-Pastuer and Glaxo-SmithKline. However Chiron have said they cannot commit themselves to the supply of vaccines for the Project, and Glaxo-SmithKline are no longer competitive because their vaccine is more expensive than the usual one, as it uses a new strain of mumps. Therefore there is only one manufacturer that can supply MMR vaccines.

With regard to the pentavalent vaccine, the Pentavalent Vaccine Procurement Agreement between PAHO and the Ministry of Health was concluded in February 1999 (Refer to Table 2-9). The total quantity that PAHO was supposed to provide during the 5 years from 1999 to 2003 is 1.25 million doses (with a gradual decrease, the planned quantity for 2003 is zero). Of these, only 0.5 million doses for the initial year (1999) were actually provided and as of July 2002 the remainder has not been shipped from the manufacturer. As it is expected that the remaining quantity will be shipped in the near future, the plan for the future use of vaccines is as shown in Table 2-10, and it is thought that it will be possible to secure vaccines for 2004 immunization.

This Pentavalent vaccine was developed by Glaxo-SmithKline and is at present manufactured only by Glaxo-SmithKline.

Table 2-9 Agreement between PAHO & the Ministry of Health for Vaccine Procurement

(unit: dose)

				(dille. dose)
1999	2000	2001	2002	2003
500,000	400,000	250,000	100,000	0
О	100,000	250,000	400,000	500,000
500,000	500,000	500,000	500,000	500,000
	500,000	500,000 400,000 0 100,000	500,000 400,000 250,000 0 100,000 250,000	500,000 400,000 250,000 100,000 0 100,000 250,000 400,000

(Source: Ministry of Health)

Table 2-10 Procurement Record and Plan for Pentavalent Vaccine

(unit: dose)

						116. 40307
	1998	1999	2000	2001	2002	2003
FSS (Social Supplementary Fund)	_	100,000	0	0	_	
PAHO (SmithKline)	_	500,000	0	0	350,000	200,000
Japan		0	500,000	150,000	0	
Ministry of Health	inggen stat of Miller of the manyor extension on the constitution of the constitution	0	0	200,000	200,000	400,000
Total	_	600,000	500,000	350,000	550,000	600,000
Target population for Immunization (Immunization rate)	_	88,697 (53%)	142,261 (88%)	163,222 (101%)	(165,000)	(165,000)
Vaccine Quantity to be used (In round figures)	_	267,000	427,000	490,000	(495,000)	(495,000)
Carried forward Quantity (In round figures)		333,000	406,000	266,000	(321,000)	(426,000)

(Source: Ministry of Health)

*Pentavalent vaccine was introduced in October 1999. As Pentavalent requires three times immunization for infants under one year old, the vaccine quantity is third times of target population. The numbers inside () are results of a trial calculation.

As stated above, the pentavalent vaccine is not be included in the Project, taking into consideration Nicaragua's ability to secure the vaccine for 2004, respect for the independence of Nicaragua and cooperation between international organizations, and the fact that procurement of this vaccine does not conform to the scheme of grant aid cooperation.

b) MR vaccine

An additional request for the MR vaccine was made at the time of the study, for use in the measles eradication campaign aimed at infants aged 1 to 4 years old, to be implemented in 2004. It was decided to look into this item after the study team had returned to Japan.

There are only two manufacturers of MR vaccine that have prequalified by WHO, Chiron of

Italy and the Serum Institute of India.

However, Chiron has recently stopped all participation in the grant aid project of Japan, and has answered that they would decline to participate in the Project.

On the other hand, the Serum Institute has said they could provide MR vaccine for the Project. According to their estimates, the FOB price is US\$1.20 and the CIP Managua price is US\$1.37 per dose. For reference, the FOB price procured by UNICEF is US\$1.00, to which is added 6 to 8% as commission.

However, 3 children in Cuba who received immunization of the Serum Institute measles vaccine in May 2002 died immediately after immunization. It is suspected that the vaccine might be contaminated, and the WHO is examining samples of the measles vaccine of Serum Institute.

The results of this examination are not yet out, and while the WHO and PAHO have not taken any measures to prohibit the continued use of this vaccine in the meantime, as there is only one manufacturer from which the MR vaccine can be procured, it is judged that the MR vaccine does not conform to the scheme of the grant aid project of Japan, and cannot readily be included in the Project. Therefore MR vaccine shall not be included in the Project.

c) Syringes and safety boxes

Disposable syringes and safety boxes are requested for injection of the vaccines procured by the Project.

However as has already been stated, vaccines are not covered by the Project, and so syringes and safety boxes shall not be included in the Project either.

(2) Policy on natural conditions

In designing solar refrigerators it is necessary to consider the amount of solar radiation. The minimum amount of solar radiation that manufacturers use to design solar refrigerators for use in Nicaragua is $3.07 \text{ kWh/m}^2/\text{day}$. Taking this amount of solar radiation as the minimum standard, a system shall be designed that satisfies the WHO/UNICEF standards and operates satisfactorily.

(3) Policy on the procurement situation and methods

Solar refrigerators and vaccine carriers must meet the WHO/UNICEF standards. As these items satisfying this standard are not manufactured in Japan or in Nicaragua, these equipment shall be procured from third countries.

As the nebulizers that meet the above stated specifications are manufactured by two or more Japanese manufacturers, this equipment shall be procured from Japan.

Essential drugs shall be procured from third countries, for the following reasons.

Firstly, many of the drugs manufactured and sold in Japan have compositions and dosage form different from the specifications requested in the Project. Even for drugs with the same specifications, the prices are several times to several tens of times higher than those manufactured in third countries, so that there is no competition at all. In addition, as the Japanese pharmaceutical manufacturers have no sales strategy for the markets of developing countries, the leaflets (package insert) and labels are written in Japanese only; none are written in Spanish or any other foreign language.

In Nicaragua, there are also at least 3 manufacturers of the drugs that are requested. However there is none at present that says it can supply the entire quantity needed for the Project. If the same drug is provided by several different manufacturers, there is a risk of misuse caused by differences in the shape of the bottle or the color of the label, which may cause confusion in use on the health facilities. Therefore in procuring an item, it is appropriate that it be one product from one manufacturer. Thus in Nicaragua there is no manufacturer able to provide the above-mentioned items.

For these reasons, these items shall be procured from third countries. As it has been reported to the WHO that some products from third counties are not secured the quality mentioned in the certificate of quality, these items shall be procured from Development Assistance Committee (DAC) member countries, for the purpose of ensuring quality.

(4) Policy on the operational and maintenance capabilities of the implementation agency

With regard to solar refrigerators, since the maintenance staff of each SILAIS has already gained experience in the Phase I and Phase II Projects in the installation of solar refrigerators, these shall be delivered to CIPS and installation shall not be carried out by the Japanese side.

(5) Policy on the time frame

The Project shall be implemented within the single fiscal year of 2002.

2-2-2 Basic Plan(Equipment Plan)

(1) Equipment Plan

From the results of the study, the content of the equipment is planned as follows. (Table 2-11)

Table 2-11 Equipment Plan

No.	Equipment	Specification	Purpose for Use	Quant	Ity
1	Solar refrigerator	Capacity: 30L or more	Vaccine storage use	23	units
2	Veccine carrier	Capacity: 2.5L or more, WHO/UNICEF standard(E4/VC.2)	Vaccine transportation use in low temperature condition	2,000	pieces
3	Nebulizer	Nebulization rate of 3 mi/min or more, with stand	Medical equipment for Bronchial asthma treatment	65	unites
4	Benzylpenicillin (Penicillin G)	Injection, 1.0millionIU/vial	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonalifitis etc.	199,500	viets
5	Benzylpenicitin proceine	Injection, 0.8millionIU/vial	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonsillitis etc.	1,175,600	vials
6	Benzylpenicillin benzathine	injection, 1.2millioniU/vial	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonsillitis etc.	364,600	viais
7	Dicloxacillin	Oral suspension, 125mg/5ml, 100ml bottle	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonsillitis etc.	219,800	bottles
8	Amoxicillin, Oral suspension	Oral suspension, 250mg/5ml, 100ml bottle	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonsillitis, otitis media etc.	200,300	bottles
9	Amoxicitin, Capsule	Capsule, 500m g	Microbial infections such as pneumonia, nasopharyngitis, laryngitis, tonsillitis, otitis media etc.	4,901,500	capsules
10	Chloramphenicol sodium succinate	Injection, 1g/vial	Microbial Infections such as severe nasopharyngitis	18,800	vials
11	Gentamycin sulfate	Injection, 20ml/2ml, 2ml ampoule	Microbial infections with penicillin or ampicillin	163,400	am poules
12	Sulfamethoxazole+Trimethoprim, Syrup	Syrup 240mg(200 + 40mg)/5ml, 100 ml bottle	Microbial infections such as urinary tract infection, dysentery, diarrhea etc.	640,900	bottles
13	Sulfamethoxazole+Trimethoprim, Tablet	Tablet, 480mg(400+80mg)	Microbial infections such as urinary tract infection, dysentery, diarrhea etc.	9,185,800	tablets
14	Nystatine	Oral suspension, 100,000IU/1ml, 30ml bottle	Anti mycosis drug	95,700	bottles
15	Chloroquine phosphate	Tablet, 250mg	Anti malaria drug	8,477,800	tablets
16	Albendazole, Suspension	Oral suspension, 100mg/5ml, 20ml bottle	Antheimintles	235,700	bottles
17	Albendazole, Tablet	Tablet, 400mg with split line	Antheimintics	1,301,000	tablets
18	Salbutamol sulfate (Albuterol), Syrup	Syrup, 2mg/5ml, 100ml bottle	Bronchial asthma, Bronchitis	431,500	bottles
19	Salbutamol sulfate (Albuterol), Aerosol inhalation	Aerosol inhalation, 5mg/1ml, 0.5% 20ml bottle	Bronchial asthma, Bronchitis	26,300	bollies
20	Phytom enadion	Intravenous/intramuscular infusion, 1mg/0.5ml, 0.5ml/ampoule	Prevention of neonatal bleeding	26,300	am poules
21	Glucose(Dextrose Monohydorate)	intravenous infusion, 5%,1000mt/bag or bottle	Retention of body fluids and energy supplement	90,500	bottles
22	Ringer-Lactate Solution(Harlman)	intravenous infusion, 1000mi/bag or bottle	Retention and correction of body fluids	75,200	bottles
23	Isotonic sodium chloride solution	Intravenous Infusion, 0.9%, 1000ml	Retention and correction of body fluids, Intravenous Injection	69,700	bottles
24	Water for Injection	Intravenous Infusion, 10ml/ampoule	Water for Injection	1,948,300	am poules
25	Oral rehydration salts (ORS)	Oral Powder(WHO formulation), 27.9mg/bag for 1000ml of water	Supplement of water and electrolytes for diarrhea, dehydration	2,580,000	bags
26	Oxytocin	Intravenous Infusion, 5IU/ml, 1ml/ampoule	Induction of labor, uterine inertia	30,100	am poules
27	Retinol(VitaminA)	25,000 IU/drop, 30ml bottle	Prevention and treatment of vitamin A deficiency	18,500	bottles
28	Paracetamol (acetoaminofen)	Oral suspension, 100mg/ml, 15ml bottle	Antipyretic, Analgesic	961,700	bottles
29	Dexamethasone sodium phosphate	Injection, 4mg/ml, 1ml vial	Allergic diseases including Bronchial asthma, Bronchitis	47,000	vials
30	Hydrocortisone sodium succinate	Injection, 500mg/vial	Allergic diseases including Bronchial asthma, Bronchitis	25,800	vials
31	Prednisolone	Tablet, 5mg	Allergic diseases including Bronchial asthma, Bronchilis	1,305,700	tablets

2-2-3 Implementation Plan

(1) Implementation Policy

The countries from which the equipment shall be procured are Japan, Nicaragua, and third countries. Procurement shall be undertaken through competitive tendering with a Japanese juridical person as contractor. With regard to the equipment procured in Japan and third countries, pre-shipment inspection shall be entrusted to a third-party inspection agency. However, items that require quality control, such as drugs, shall undergo pre-shipment and pre-delivery inspections by the procurement supervisor.

General Direction of Health Service of the Ministry of Health is the department responsible for implementation of the Project and will take responsibility for the maintenance of the equipment. The actual distribution, management, and transportation of drugs shall be done by CIPS.

(2) Implementation Conditions

For the transportation of drugs that require temperature control, care must be taken with proper packaging and fast transportation as well as speedy pre-loading inspection, so as to avoid adverse affects on the quality. Two of the drugs, oxitocin and dexamethasone sodium phosphate, shall be transported by air for speedy transportation, as they must be stored at a temperature below 15°C.

(3) Scope of Works

The scope of works is shown in Table 2-12. The Project does not cover installation work.

	Content				
Japan	a. Procurement of Equipment b. Transportation of equipment to the delivery site (warehouse of CIPS, the Ministry of Health)				
Nicaragua	a. Distribution of equipment from the delivery site (warehouse of CIPS, the Ministry of Health) to each facility				

Table 2-12 Responsibility for Procurement and Transportation

(4) Procurement supervision plan

For the overall coordination in Nicaragua of the procured equipment including acceptance inspection, sorting and delivery, a procurement agent's personnel shall be dispatched from the nearest branch office in Nicaragua or the overseas office as local procurement supervisor.

(5) Equipment procurement plan

The equipment procured by the Project shall include a necessary quantity of spare parts for solar refrigerators and nebulizers. After-sales service by the agent or the dealer in Nicaragua shall be available for one year after the procurement.

The presumed procurement countries of the equipment are shown in Table 2-13. The reasons for procurement from third countries are given in 2-2-1 (3).

Table 2-13 Procurement Countries

	Equipment	Nicaragua	Japan	The Third countries
1	Solar refrigerator			0
2	Vaccine carrier		_	0
3	Nebulizer		0	
4	Benzylpenicillin (Penicillin G)			0
5	Benzylpenicillin procaine			0
6	Benzylpenicillin benzathine			0
7	Dicloxacillin			0
8	Amoxicillin, Oral suspension			0
9	Amoxicillin, Capsule			0
10	Chloramphenicol sodium succinate	,		0
11	Gentamycin sulfate			0
12	Sulfamethoxazole+Trimethoprim, Syrup			0
13	Sulfamethoxazole+Trimethoprim, Tablet			0
14				0
15				0
16	Albendazole, Suspension			0
17	Albendazole, Tablet			0
18	Salbutamol sulfate (Albuterol), Syrup			0
19	Salbutamoi sulfate (Albuteroi), Aerosol Inhalation			0
20	Phytomenadion			0
21	Glucose(Dextrose Monohydorate)			0
22	Ringer-Lactate Solution(Hartman)			0
23	Isotonic sodium chloride solution			0
24	Water for injection			0
25	Oral rehydration salts (ORS)			0
26	Oxytocin			0
27	Retinol(VitaminA)			0
28	Paracetamol (acetoaminofen)			0
29	Dexamethasone sodium phosphate			0
30	Hydrocortisone sodium succinate			0
31	Prednisolone			0

All the equipment shall be transported by land to the warehouse of CIPS, Ministry of Health in Managua the capital city, in the case of sea transportation, from Corinto port in Nicaragua, Puerto Cortes port in Honduras, or Limon port in Costa Rica, in the case of air transportation, from Managua Airport.

(6) Implementation schedule

Budgetary year: Fiscal year 2002

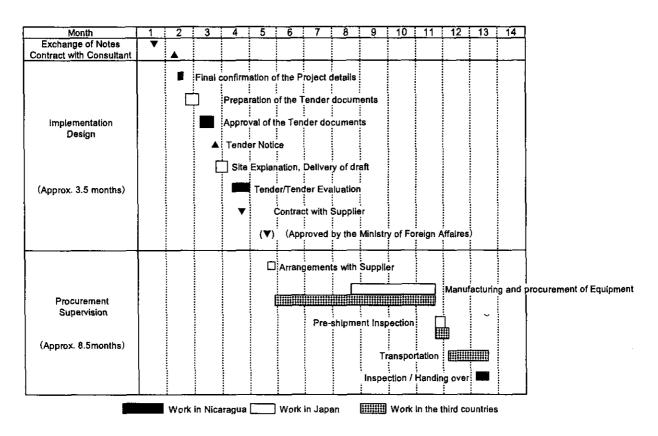
Total work period (from Exchange of Notes to delivery) : 12.0 months

From Exchange of Notes to contract with supplier

: 3.5 months

Delivery (from contract with supplier to delivery)

: 8.5 months



2-3 Obligation of the Recipient Country

The obligations of Nicaragua in the implementation of the Project are shown below.

- (1) To provide proper and prompt customs procedures for the procured equipment
- (2) To secure the warehouses necessary for the storage of procured equipment
- (3) To provide prompt delivery of procured equipment from the storage warehouse to the final destination, and to bear the cost of delivery
- (4) To pay the notification fee for the Authorization to Pay (A/P) generated according to the Banking Arrangements (B/A) for implementing the Project
- (5) To take budgetary measures necessary for the proper operation and maintenance of the procured equipment, to secure personnel, to secure refrigerators for the storage of those drugs that need to be stored in a cool place and to work for quality preservation.
- (6) To install the solar refrigerators promptly
- (7) After procurement of equipment and drugs, to submit an annual monitoring report on the

following to the Embassy of Japan in January 2005 and January 2006

- 1) State of distribution of drugs in each SILAIS
- 2) State of distribution of solar refrigerators and nebulizers
 - (a) Name of beneficiary health facilities
 - (b) Installation date
 - (c) Operation confirmation result
 - (d) If the installed equipment is moved, the reason why

2-4 Project Operation Plan

The equipment procured by the Project shall be delivered to CIPS. The method of distribution from CIPS to each SILAIS is as follows.

The request for and the delivery of drugs between CIPS and the SILAIS is carried out regularly, once a month or once every 2 months, for each SILAIS. However, for 7 SILAIS, – Managua, Masaya, Granada, Rivas, Carazo and Boaco which have large populations is large and the roads are relatively good, and RAAN where C/S are scattered • they make their requests directly to CIPS and the drugs are delivered directly from CIPS to each C/S.

In the case of drugs, the invoice attached for delivery from CIPS to SILAIS contains the drug code, dosage form, drug name, manufacturer's name, expiry date, quantity, and donor's name, so that it is possible to trace the state of use of drugs for each donor. The SILAIS manages the items by recording acceptances and releases in the ledger. The person responsible for accounting in the SILAIS will conduct a spot-check inventory inspection at the warehouse once every 2 weeks. As the staff member in charge of accounting manages items by checking them against the invoice master record, the warehouse inventory management card and the registration department drugs ledger, no dishonesty can arise.

Regular requests and deliveries are also carried out between the SILAIS and the C/S and between the C/S and the P/S, once a month or once every 2 months. Facilities that have used drugs are obliged to report once a month to the supervisory authority, on the situation with regard to the use of drugs, attaching the prescriptions in which the drugs have been used.

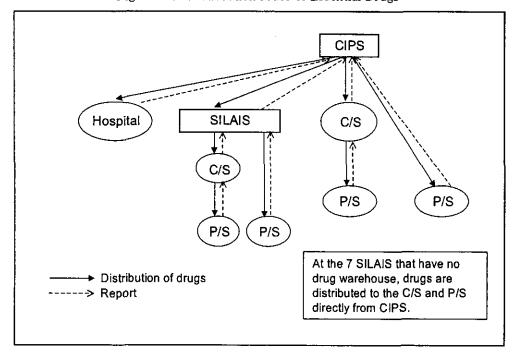


Figure 2-1 Distribution route of Essential Drugs

Of the equipment to be procured by the Project, an item that will need maintenance is the solar refrigerator. There are already 151 solar refrigerators in Nicaragua supplied through the cooperation of Japan and other donor countries. Twelve SILAIS have engineers dedicated to cold chain equipment, and carry out regular maintenance at least once a year. In SILAIS that have no engineer, 2 engineers of the Ministry of Health visit on a regular basis. Those using solar refrigerators at health facilities carry out regular maintenance daily, weekly and once every 3 months, in accordance with the manual. The costs involved are paid from the establishment cost and the equipment purchase cost. In addition, training in temperature control and refrigerator maintenance is given to health workers, with the support of PAHO. In 2001, 246 health workers from all the SILAIS underwent training.

As nebulizers are relatively simple equipment in terms of structure and operation, no special maintenance is needed.

Therefore, there are no problems in the operation and maintenance plan, both at the staff level and at the technical level.

Chapter 3 Project Evaluation and Recommendations

3-1 Project Effect

Direct effects

- 1) With the improvement of cold chain systems in the non-electrified areas and remote areas, it will be possible to fortify the vaccine supply system and reduce the rate of vaccine loss.
- 2) Through the procurement of nebulizers, it will be possible to treat acute respiratory infections in infants at 60 health facilities in 16 SILAIS.
- 3) Essential drugs generally used to treat infectious diseases can be secured above a certain level quantity, and a stable system of early treatment and prevention of diseases covered by the Project can be established. It will be possible to cut off the source of infection its transmission, and to prevent the spread of diseases.

(2) Indirect effects

- 1) With the improvement of cold chain systems throughout the country, a high vaccination rate can be maintained and even improved.
- 2) It is possible to reduce mortality and morbidity caused by preventable diseases through vaccinations.
- 3) With the installation of nebulizers at the primary level health facilities, hospitals can concentrate on the higher-level medical services.
- 4) With the securing of essential drugs above a certain level quantity, it will be possible to allocate the budget to higher-level drugs, leading to an improvement in the quality of the health and medical services as a whole.

3-2 Recommendations

Although the Ministry of Health has already experienced the Phase I and Phase II Projects and the ability for implementation of this Project is considered to be high, consideration should be paid to the following matters.

- (1) In the Phase I and Phase II Projects, as a result of the drug quality inspection by the Ministry of Health after the arrival of essential drugs in Nicaragua, in some cases the procured drugs did not pass the inspection and the Ministry of Health requested the replacement of the items. However as the quality inspection was conducted a fairly long time after the arrival of the drugs, it was unclear what had caused the change in quality and where responsibility lay. Therefore, the Ministry of Health must carry out quality inspection promptly after the arrival of the drugs, and report the results to the supplier and the consultant.
- (2) It became clear that some of the nebulizers procured in the Phase I and Phase II Projects were

not working when they arrived at the health facilities or immediately after they starting being used. However those at the local level did not understand how to make a claim or how to request a repair. For the equipment to be used effectively, it must be made well known at the local level that the equipment procured under the Project has a warranty period.

[Appendices]

- 1. Member List of the Study Team
- 2. Survey Schedule
- 3. List of Parties Concerned in the Recipient Country
- 4. Minutes of Discussions
- 5. Obtained Reference Data
- 6. Inventory List of Solar Refrigerators
- 7. Inventory List of Nebulizers
- 8. Record of Equipment (Phase I & Phase II) and Comparison with Phase III Project

1. Member List of Survey Team

1. Leader

Dr. Motoyuki YUASA Expert Service Division

Bureau of International Cooperation International Medical Center of Japan

2. Manager and Project Planner

Mr. Nagata Takeshi

Second Project Management Division Grand Aid Management Department Japan International Cooperation Agency

3. Equipment and

Mr. Toshio SUGAWARA

Procurement Planner1

General Grand Aid Division, Grand Aid Management Dept.,

Japan International Cooperation system

4. Equipment and

Ms. Tomoko NIKAI

Procurement Planner2

General Grand Aid Division, Grand Aid Management Dept.,

Japan International Cooperation system

5. Equipment and

Mr. Shinji HOSOYA

Procurement Planner3

General Grand Aid Division, Grand Aid Management Dept.,

Japan International Cooperation system

6. Interpreter

Ms. Setsuko OTAKI

Japan International Cooperation Center

2. Survey Schedule

		Government Officer		Consultant and Interpreter				
No	Date		Mr. Nagata (Manager)	Dr. Yuasa (Leader)	Ms. Nikai Ms. Otaki	Mr. Sugawara Mr. Hosoya	Place of Stay	
1	16, July	Tue.			Tokyo 15:50 (C0006) 13:45/17:45 (C01974)		Managua	
2	17, July	₩en.			Courtesy Call and Discussion with JICA Office, Courtesy Call on Embassy of Japan(a.m.), Courtesy Call on Ministry of Health(p.m.)		Managua .	
3	18, July	Thr.			Discussion with Ministry of Health(a.m.), Courtesy Call on PAHO(p.m.)		Managua	
4	19, July	Fri.			Team meeting		Managua	
5	20, July	Sat.			Site survey: Managua		Managua	
6	21, July	Sun.	:		Team meeting		Managua	
7	22, July	Mon.		Tokyo 12:00 (JL006) → New York 11:25	Site survey: Matagalpa		New York/Managua	
8	23, July	Tue.		New York 07:20 (AA971) → Miami 09:20/11:00 (AA986) → Managua 11:47 Site survey: Managua	Site survey:Managua	Site survey: Chinandega	Managua/China ndega	
9	24, July	Wen.				Site survey: Chinandega	Chontales/Man agua	
10	25, July	Thr.	-	Site survey: Rio San Juan S		Site survey:RAAS	Rio San Juan/RAAS	
11	26, July	Fri.		Site survey: Rio San Juan Site survey: RAAS		Rio San Juan/RAAS		
12	27, July	Set.		Moving to Managua Site survey: RAAS		Managua		
13	28, July	Sun.		Team meeting			Managua	
14	29, July	Mon.		Site survey: Le·n			Managua	
15	30, July	Tue.	Tokyo 15:50 (C0006) → Huston 13:45/17:45 (C01974) → Managua 19:58	Discussion with Ministry of Health(a.m.) Courtesy Call on CIPS(p.m.)			Managua	
16	31, July	₩en.	and Discussion with JICA On Foreign Affairs, Economy as	Call on Embassy of Japan, Courtesy Call ussion with JICA Office and Ministry of Manufactuerers (a.m.), Courtesy Call and Discussion with Ministry of Health, Courter (p.m.)			Managua	
17	1, August	Thr.	Call on the Project for St. System of Integral Health (and Exchange views		Preparing document(C	onsultant)	Managua	
18	2, August	Fri.	Courtesy Call on Health Center of Managua(a.m.), Courtesy Call on Minister of Ministry of Health and CNDR(p.m.) Call on local medicine Manufactuerers(a.m.), Courtesy Call on Minister of Ministry of Health, Courtesy Call on LNCCM(p.m.) (Consultant)					
19	3, August	Sat.	Team meeting					
20	4, August	Sun.	Team meeting					
21	5, August	Mon.	Discussion on Minutes Discussion with CIPS(p.m.)(Consultant)				Menague	
22	6, August	Tue.	Discussion on Minutes(a.m.), Signing on Minutes(p.m.)					
23	7, August	Wen.	Courtesy Call on PAHO(a.m.) Marketing Research(a.m.)(Consultant)					
<u> </u>		<u> </u>	Report to JICA Office, Report to Embassy of Japan(p.m.)					
24	8, August	Thr.	Managua 07:10 (AA986) → Miami 11:44/13:30 (AA1539) Managua 07:10 (AA986) → Miami 11:44 → Sunfransisco 16:16 Managua 07:10 (AA986) → New York 16:22			San Francisco /New York		
25	9, August	Fri.	San Francisco 13:00 (JL001)) →	New York 12:15 (NHOO	9) →	on board	
26	10, August	Sat.	→ Tokyo 15:40					

3. List of Parties Concerned in the Recipient Country

1. Embassy of Japan in Nicaragua

Kunio Shimizu Ambassador extraordinary and plenipotentiary

Naohito Watanabe Counselor Mayumi Hashimoto Adviser

2. JICA Office in Nicaragua

Shigeru Takagi Resident Representative

Tetsuya Oda Project Formulation Advisor

Humberto Picado Technical Cooperation Advisor

3. Ministry of Health (MINSA)

Lucía Salvo Horvilleur Misirter

Nestor Reyes Director, General Direction of Planning and Development

Felix Ruiz Director, Planning and Investment Division

Marina Isabel Aviles Director, Planning and Investment Division

Marisol Gutierrez S. Planning Division

Omar Malespin Immunization Direction
Alejandro Ortega Amador Immunization Direction
María Teresa Villagra Immunization Direction

Maritza Narváez Director,

Pharmaceutical and Non Pharmaceutical Products

Normalization Direction

Evenor Jiménes Pharmaceutical and Non Pharmaceutical Products

Normalization Direction

Manuel Córdoba Pharmaceutical and Non Pharmaceutical Products

Normalization Direction

Fiorella Falla Pharmaceutical and Non Pharmaceutical Products

Normalization Direction

Sergio Palacio Director, General Direction of Human Resources

José Tomás Rueda Lawyer

4. Ministry of Foreign Affairs, Economy and Cooperation Direction

Mauricio Gómez Lacayo Vice-minister

María Auxiliadora Vindel R. Responsible official

Alejandro Maltez M. Japanese Grant Aid Consultant

Isolda Frixione Miranda

Director, General Direction of Bilateral Aid

5. Managua SILAIS Office

Yerma Sequeira

Manager

Gioconda Rosales

Integral Management for Women, Childhood and

Adolescence

Direction

Olga Maria Sequeira Ivónez

Health Service Direction

Socorro Garay Z

Director, Pharmaceutical Products Direction

Martha Pacheco

Doctor

6. Yolanda Mayorga Hosptal, Tipitapa, Managua

Róger Macias H.

Director

Erika Moreno Cáceres

Person in charge of Pharmaceutical Products

Brenda Silva

Sub-direction of Epidemiology

Sagrario Benaviades

Sub-direction of Medical Attention

Martha Reyes T.

Nurse

Rosario Sequeira

Nurse

Fernando Quintero

Administrator

Yasira Espino

Secretary

Silvio Membreño

Administrative Service

7. Silvia Ferrufino Health Center, Managua

Lidiet Martínez M.

Doctor

Gloria Delgadillo

Person in charge of Pharmaceutical Products

Norma Cruz

Nurse

Edgard Castillo

Person in charge of Pharmaceutical Products Storage

8. Edgar Lang Health Center, Managua

Ranulfo Escobar

Director

Jorge A. García R.

Assistant Manager

Mayra Silva

Person in charge of EPI

Helen Cuadra

Nurse

Juana Pérez R.

Person in charge of Pharmaceutical Products

Jeaneth González

Person in charge of Pharmaceutical Products Storage

9. Ciudad Sandino Health Center, Managua

Augusto Sequeira

Director

Alejandro Urbina S.

Statistician

Mireya Cajina P.

Nurse

Esteluina Acosta

Person in charge of Pharmaceutical Products

René Alfonso Gutiérrez

Doctor

10. Masachapa Health Center, Managua

César Augusto Mena Sandoval

Director

Julio Fernández King

Administrator

11. Matagalpa SILAIS Office

Julio Cesar Acevedo López

Director

Henry Davila

Sub-director

Byron Pérez Ruiz

Doctor

Héctor Torres Toro

Administrator

Sandra Gutiérrez

Person in charge of Pharmaceutical Products

Indiana Páiz

Doctor

Judith Wong Blandón

Doctor

Jorge Martínez

Psychologist

Marta Ligia Orozco

Person in charge of Immunization

Sergio Ramón Gutiérrez Ubeda

Doctor

12. Matagalpa Health Center, Matagalpa

Jamileth Alegría

Director

Xiomala Sinco S.

Accountant

Flor Jarquín S.

Person in charge of Pharmaceutical Products

13. Chinandega SILAIS Office

Carlos David Alonso

Director

Janet Ramírez

Person in charge of Pharmaceutical Products

Sandra Lovo López

Person in charge of EPI

Octavio Rios R.

Director, Chinandega Municipality

14. El Viejo Health Center, Chinandega

Mario Montenegro

Director

Brenda Baca

Person in charge of statistics

Marlon I. Salazar C

Administrator

Dowin Campo

Person in charge of Integral Management for Women,

Childhood and Adolescence

Albertina Meza C.

Nurse

Freddy A. Morales

Person in charge of Epidemiology

Danun A. Cruz

Person in charge of Pharmaceutical Products

15. Roberto Cortez Health Center, Chinandega

Damaris Pérez A.

Person in charge of Pharmaceutical Products

Nubia Peralta

Nurse

Mercedes López M

Person in charge of EPI

16. José Schendell B. Corinto Health Center, Chinandega

Xiomara Camacho

Person in charge of EPI

Juana P. Esquivel A

Administrator

Holman Ullon

Person in charge of Epidemiology

17. Chichigalpa Health Center, Chinandega

Genaro Garcia H

Director

Magda Reyes

Coordinator Integral Management for Women, Childhood

and Adolescence

Carmen Toval H

Person in charge of Epidemiology

18. Chontales SILAIS Office

Diego A. Calvo V.

Doctor

Hernan Martinez

Dentist

Nora Alvales

Person in charge of Public Health

Carla Rothschuh P.

Doctor

Magdalena Macia

Doctor, Epidemiologist

19. Acoyapa Health Center, Chontales

Francisco Ochoa

Director

Juana Moreno

Person in charge of Public Health

20. Río San Juan SILAIS Office

Guillermo Rodriguez

Doctor

Aristo Jiron Rizo

Doctor

Azarías Erioto V.

Epidemiologist

21. San Carlos Health Center, Río San Juan

Freddy Ruiz A Doctor

María Adela Moncada Assistant nurse

Martha Gutiérrez Person in charge of Pharmaceutical Products

María Romero Person in charge of Integral Management for Women,

Childhood and Adolescence

Remdall Olvas Person in charge of Epidemiology

Alexaderer Gómez T. Engineer for cold chain equipment

22. Solentiname Health Post, Río San Juan

Lidia Mejco Martínez Assistant nurse

23. Bello Amanecer Health Post, Río San Juan

Yamileth del C. Picado Vilela Doctor

Ana María Hurtado Montiel Assistant nurse

Norman Aguilar M. Assistant nurse

Marisol Hurtado Assistant nurse

24. RAAS SILAIS Office

Donald Jarquin Director
Elizabeth Amador Pharmacist
Martha Aguilar Pharmacist

Odilia Aragon Nurse

Abraham Mayorga Epidemiologist

25. Laguna de Perlas Health Center, RAAS

Kathy Bland Ford Allen Nurse

Emma Hamphris Person in charge of Pharmaceutical Products

Ardeth Williams Desouza Person in charge of EPI

Sheron Clark Person in charge of maternal and child health

26. San Francisco Health Post, RAAS

Marlon Bolaños Doctor

Martha Aguilar Pharmacist

27. León SILAIS Office

Salvador Rosales Director

Fermin Valdivia

Doctor

Ana Mercedes Ordoñez

Person in charge of EPI

Dalila López Ortiz

Person in charge of Pharmaceutical Products

Cony Parajón Rodriguez

Nutritionist

28. Sauce Health Center, León

Elena B. Roque

Director

Sara Luisa A Ortega

Doctor

Mauricio Ruiz

Doctor

Teresa Velásquez

Doctor

Antonia Ariliz

Nurse

29. Salalez Health Post, León

Anacelia Valle

Assistant nurse

Digna Salgado

Assistant nurse

30. CIPS (Centro de Insumos para la Salud)

Javier Palacios A

Director General

Guadalupe Canales Renazco

Director

Ivonne López Pérez

Director, Distribution

Rene Ortega

Director, Information

Ana Cecilia Herdocia

Person in charge of Pharmaceutical Products

Antonio Oporta Zamorra

Person in charge of Registration and Warehouse

31. National Biological Bank

Patricia Reyes Gonzáles

Immunization Direction

32. National Laboratory of Quality Control of Medicines

Nubia A. Blanco S.

Pharmacist

33. PAHO (Pan American Health Organization)

Patricio Rojas Lara

Representative

Raúl Montesano Castellanos

Adviser for Vaccine and Immunization Programme

MINUTA DE DISCUSIONES SOBRE EL ESTUDIO DEL

PROYECTO PARA EL REFORZAMIENTO DEL SERVICIO DE LA SALUD INFANTIL (FASE III) EN LA REPUBLICA DE NICARAGUA

En respuesta a la solicitud del Gobierno de la República de Nicaragua, el Gobierno del Japón decidió realizar un Estudio del Proyecto para el Reforzamiento del Servicio de la Salud Infantil (Fase III) (en adelante se denominará "el Proyecto") y confió dicho estudio a la Agencia de Cooperación Internacional del Japón (en adelante se denominará "JICA").

Por consiguiente, JICA envió a la República de Nicaragua una Misión del Estudio (en adelante se denominará "la Misión"), dirigida por el Dr. Motoyuki Yuasa, Dirección de Cooperación Internacional, Centro Médico Internacional del Japón, Ministerio de Salud, Trabajo y Bienestar del Japón, desde el 16 de julio hasta el 8 de agosto de 2002.

La Misión ha discutido con las autoridades oficiales relacionadas del Gobierno de la República de Nicaragua y realizó los estudios en los sitios del Proyecto.

Como consecuencia de las discusiones y los estudios de campo, ambas partes han confirmado los puntos descritos en la ayuda memoria adjunta.

Managua, 6 de agosto de 2002

Dr. Motoyuki Yuasa, M.D., Ph.D.

Jefe

Misión del Estudio

Japón

Lic. Lucía Salvo Horvilleur

Ministra

Ministerio de Salud República de Nicaragua

restreo de Pionor

Dr. Mauricio Gómez Lacayo

Vigeministro Secretario de Relaciones Económicas y Cooperación

Ministerio de Relaciones Exteriores

República de Nicaragua

AYUDA MEMORIA DE LA MISION

1. Objetivo del Provecto

El objeto de este proyecto es mejorar la salud materno- infantil en la República de Nicaragua a través de suministrar los siguientes equipos e insumos médicos.

- l) medicamentos y micronutrientes necesarios para el tratamiento y la prevención de enfermedades materno-infantiles en la atención primaria.
- 2) equipos e insumos médicos necesarios para las actividades del Programa Ampliado de Inmunización.
- 3) equipos médicos para el tratamiento de los pacientes con problemas respiratorios.

2. Organismo Responsable y Organismo Ejecutor

El organismo responsable del Proyecto es el Ministerio de Salud.

Las instancias ejecutoras serán la Dirección General de Servicios de Salud y la Dirección General de Salud Ambiental y Epidemiología del Ministerio de Salud como está descrito en Anexo-1.

- 3. Solicitudes presentadas por el Gobierno de la República de Nicaragua.
- 3-1. Tras sostener una serie de discusiones con la Misión,se ha revisado y confirmado el contenido de la solicitud de parte de la República de Nicaragua(Anexo-2). Sin embargo, la aprobación final del Proyecto se determinará posterior a un análisis de los resultados del estudio.
- 3-2. La parte nicaragüense ha asignado sus prioridades sobre los artículos en el Anexo-2.
 - A = Primera Prioridad / Esencial
 - B = Segunda Prioridad / Necesita estudiar
 - C = Tercera Prioridad / Si posible

4. Sistema de Cooperación Financiera No Reembolsable del Japón

- 4-1. La parte nicaragüense ha comprendido el Sistema de Cooperación Financiera No Reembolsable del Japón explicado por la Misión, según el **Anexo-3**.
- 4-2. En el caso de que sea aplicada la Cooperación Financiera No Reembolsable del Japón, la parte nicaragüense tomará las medidas necesarias descritas en el Anexo-4, a fin de obtener una buena ejecución del Proyecto.

5. Programa del Estudio

JICA preparará el Informe Final del Estudio sobre el Proyecto y lo entregará a la parte nicaragüense alrededor del mes de diciembre de 2002.

nuy

6. Otros asuntos relevantes

6-1. Resultado de la distribución en la fase I y la fase II.

Ambas partes han verificado el resultado de la distribución en la fase I y la fase II, según el Anexo -5. La parte japonesa ha sugerido a la parte nicaragüense que distribuya y asegure el uso de medicamentos remanentes de la fase I y la fase II antes de su vencimiento. La parte nicaragüense se ha comprometido a distribuir los saldos remanentes de ambas fases antes de su fecha de vencimiento e informar el resultado a la Embajada de Japón en Nicaragua.

6-2 Monitoreo y Evaluación

6-2-1 Inventario sobre nebulizadores

La parte nicaragüense se ha comprometido a presentar inventarios, localización y la demanda de nebulizadores a nivel nacional a la oficina de JICA en Nicaragua a mediados de septiembre de 2002.

6-2-2 Monitoreo del Proyecto

Ambas partes están de acuerdo con la importancia de monitoreo y evaluación del proyecto.

La parte nicaragüense se ha comprometido a entregar el informe anual de monitoreo y evaluación del proyecto a la Embajada del Japón en Nicaragua en enero de 2005 y enero de 2006, despúes de finalizar la adquisición de equipos e insumos médicos.

Los temas del informe mencionado arriba son los siguientes;

- i) el resultado de distribución de medicamentos y micronutrientes por SILAIS
- ii) el resultado de distribución de refrigeradoras solares y nebulizadores
 - ① el nombre de la unidad de Salud beneficiaria
 - ② la fecha de instalación
 - 3 el resultado de la comprobación del funcionamiento
 - 4 en caso del cambio de sitio en donde los equipos están instalados, explique las razones.

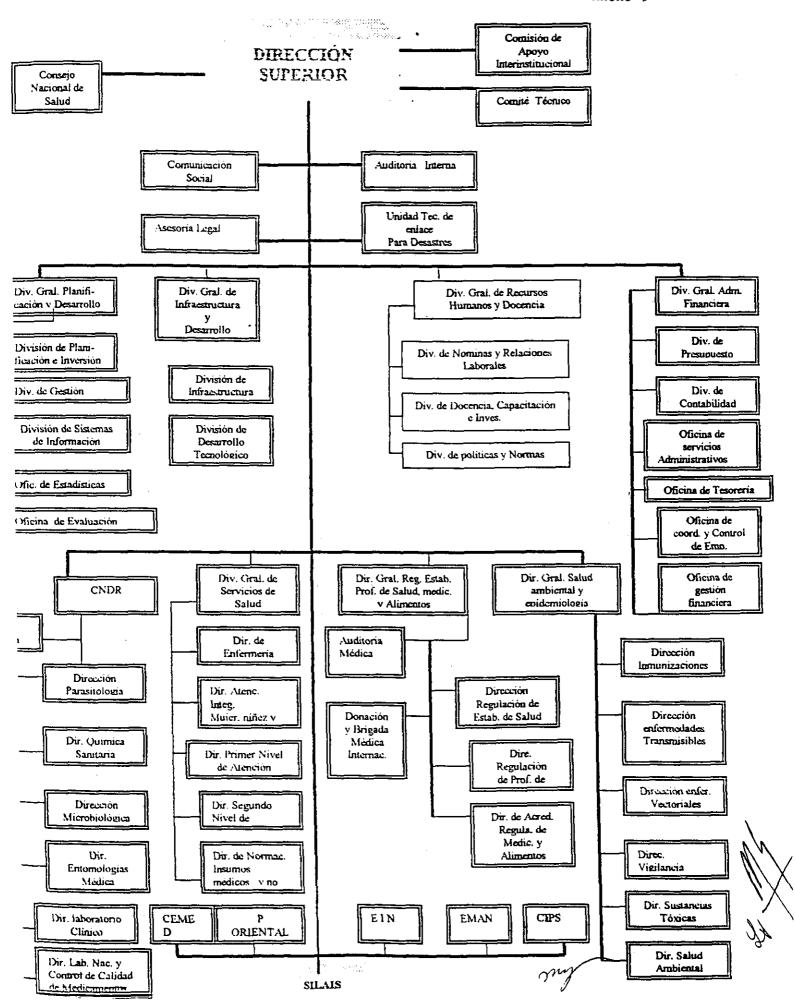
6-3 Recomendaciones por la parte japonesa

- 6-3-1 La parte japonesa ha sugerido a la parte nicaragüense que haga más esfuerzos para poder asegurar propiamente el suministro de vacunas, medicamentos y micronutrientes necesarios por si mismo.
- 6-3-2 En vista de la fase I y la fase II del Proyecto, la parte japonesa ha señalado la necesidad de fortalecer el sistema de mantenimiento de equipos para que la parte nicaragüense pueda aprovecharlos al máximo.

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Anexo-1



MINISTERIO DE SALUD DIRECCION DE SALUD AMBIENTAL Y EPIDEMIOLOGIA DIRECCION DE INMUNIZACIONES

Requerimiento de Vacunas e Insumos para Red de Frio

No	INSUMO	CANTIDAD	PRIORIDAD
1	MR	700.000	В
2	PENTAVALENTE	150.000	С
3	MMR	182.000	С
4	Jeringas 1/2ccx25x5/8	700.000	С
5	Cajas destructoras de jeringas	7.000	С

Plan de Distribución de Refrigeradores Solares y Termos

No	SILAIS	REFRIGERADOR SOLAR	TERMOS
110	OILAI0	SUNFROST RFBV-134A	GIOSTYLE
1	Granada	0	80
2	Managua	0	220
3	RAAN	0	120
4 5	RAAS	1	100
5	Rio San Juan	0	100
6	Carazo	1	80
7	Matagalpa	i 1	150
8	León	3	200
9	Boaco	2	50
10	Jinotega	0	150
11	Rivas	0	100
12	Chinandega	1	150
13	Nueva Segovia	9	130
14	Madriz	0	90
15	Estelí	5	90
16	Chontales	0	105
17	Masaya	0	80
18	CENABI	0	5
	TOTAL	23	2.000

* Prioridad : Todos A (para refrigeradores solares y termos)

*Paquetes Frios: Cada Termo vendrà acompañado de un juego de respuestos de paquetes frios.

*CENABI: Centro Nacional de Biològicos

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DIRECCION GENERAL DE SERVICIOS DE SALUD

ANEXO 2-2

REQUERIMIENTOS DE MEDICAMENTOS PARA 17 SILAIS REFORZAMIENTO DEL SERVICIO DE LA SALUD INFANTIL FASE III AGOSTO DEL 2002

No	Código	DESCRIPCION	UM	TOTAL MEDICAMENTOS	PRIORIDAD
1	1010100	Benzilpenicilin/penicilin G(1.0MIU)	FAM	349.200	Α
2	1010120	Benzitine benzylpenicilin/penicilin G benzatine (1.2 MIU)	FAM	364.600	Α .
_ 3	1010130	Dicloxacilina 125mg/5ml	FCO	219.800	Α
4	1010140	Amoxicilina 250mg/5ml	FCO	337.800	Α
_5	1010145	Amoxicilina 500 mg	САР	4.901.500	Α
6	1010510	Trimetropin Sulfametoxazol 80mg+400mg	ТАВ	9.185.800	Α
7	1010700	Nistatina 100,000 unidades	FCO	100.000	Α
8	1010810	Cloroquina Fosfato 250 mg	TAB	8.477.800	Α
9	1020620	Albendazol 100mg/5ml	FCO	265.700	Α
10	1020630	Albendazol 400 mg	TAB	1.630.800	Α
11	1030108	Salbutamol Solución para Nebulizadores Smg/ml	FCO	26.300	Α
12	1050300	Fitomenadiona (Vitamina K1)1mg/5ml	AMP.	36.600	Α
13	1060100	Dextrosa en Agua al 5% 1000cc	FCO	90.500	Α
14	1060120	Cloruro de Sodio 0.9% 1000 ml	FCO	95.900	Α
15	1060300	Agua Destilada 10 ml	АМР	2.034.100	Α
16	1060540	Sales de Rehidratación Oral	SOB	2,580.000	Α
17	1100100	Oxitocina Sintética 10 UI/mi	AMP	40.300	A
18	1150120	Vitamina A 25,000 UI/gota	FCO	22.200	A
19	1160210	Paracetamol Solución 100mg /ml	FCO	961.700	A
20	1170100	Dexametazona Fosfato Sódico 4mg /ml	АМР	64.400	А
21	1170110	Hidrocortisona Succinato Sódico 500 mg	FAM	45.700	Α
22		Prednisona 5mg	TAB	1.845.800	Α
23		Procaine bezcilpenicilin/penicilin procaine (0.8MILI)	FAM	1.175.600	В
24	1010330	Cloramfenicol Succinato sódico 1gm	FAM	34.200	В
25	1010420	Gentamicina Sulfato 20mg/2ml	AMP	177.300	В
26	1010500	Trimetropin Sulfametoxazol 40mg+200mg /5ml	FCO	640.900	В
27	1030100	Salbutamol Syrup 2mg/5ml	FCO	431.500	В
28	1060110	Hartman Solución Standard 1000 ml	FCO	109.400	В

El tiempo estimado para la distribución de los medicamentos es de un año La fuente de información para el cálculo de requerimientos , fue cada una de las programaciones de medicamentos remitidos por cada uno de los SILAIS

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ANEXO 2-3-1

MINISTERIO DE SALUD DIRECCION GENERAL DE SERVICIOS DE SALUD

Distribución Nebulizadores III Fase

SILAIS	MUNICIPIO	UNIDAD DE SALUD	NO.	TOTAL		
Boaco	Boaco		1			
	Boaco	Hosp. José Nieborowski	1			
	San José de los					
	Remates		•	6		
	Santa Lucia		$\frac{1}{1}$			
	Teustepe		1			
	Camoapa		$\frac{1}{1}$			
Carazo	Jinotepe	Hosp. Santiago	1			
	Jinotepe	1100p. Suntago	1			
	La Conquista		1			
	Diriamba		1	6		
	El rosario		1	Ū		
	San Marcos		1			
Chinandega	Chichigalpa		1	2		
	Puerto Morazán		1	2		
Jinotega	Cua-Bocay		1			
,	El Cua		1			
	Santa Maria de		1	4		
	Pantasma		1	7		
	Wiwili		1			
Matagalpa	Matagalpa	Hosp. César Amador Molina	$\frac{1}{1}$	1		
Chontales	Juigalpa	Hosp. La Asunción	1	<u> </u>		
	Muelle de los	1103p. La Asulicion	1			
	Bueyes			4		
	Santo Domingo		1	•		
	San Lorenzo		1			
Estelí	Estelí	Hosp. San Juan de Dios	1	· · · · · · · · · · · · · · · · · · ·		
	Estelí	1205p. Sun Juan de Dies	1			
	San Juan de		1	4		
	Limay		1	.		
	San Nicolás		1			
Granada	Granada		1	2		
• •	Nandaime		1	4		
Nueva Segovia	Ocotal	Hosp. Luis Alfonso Moncada	$\frac{1}{1}$			
	Macuelizo	2203p. Dais raionso mioneaua	1	5		
	Мигта		1			
	Santa Maria		$\frac{1}{1}$			
	Wiwili		1			
SUBTOTAL	** 1 44 171	34	<u> </u>			

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SILAIS	MUNICIPIO	UNIDAD DE SALUD	NO.	TOTAL
León	El Jicaral		1	
	Larreynaga		1	
	Nagarote		1	4
	Santa Rosa del		1	
	Peñón		}	
Madriz	Somoto	Hosp. Juan Brenes Palacio	1 1	
	Las Sabanas		1	
	San Juan del río		1	4
	Coco			
	Yalagüina		1	
Masaya	Masaya	Hosp. Humberto Alvarado	<u> </u>	
•	La Concepción		1	4
	Nandasmo		1	
	Tisma		1	
Managua	El Crucero		1	
J	Mateare		1	
	San Francisco		1	
	Libre		}	
	San Rafael del		1	7
	Sur)	j	
,	Ingenio Julio		1	
	Buitrago			
	Ticuantepe		1	
	Villa Carlos		1	
	Fonseca			· 1
RAAN	Puerto Cabezas		1	2
	Prinzapolka		1	
RAAS	Bluefields	Hosp. Ernesto Sequeira	1	
	Corn Island		2	
	La Cruz de Rio		1	4
	Grande		}	
Rivas	Rivas	Hosp. Gaspar García Laviana	1	
	Rivas		1	4
	Buenos Aires		1	
	Cárdenas		1	
Río San Juan	El Castillo		1	
	San Juan del		1	2
•	Norte)	
SUBTOTAL		31	 _	
TOTAL		65		

Prioridad: Todos los nebulizadores son prioridad A

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SISTEMA DE LA COOPERACION FINANCIERA NO REEMBOLSABLE DEL JAPON

1. Procedimiento de la Cooperación Financiera No Reembolsable del Japón

1) El procedimiento de la Cooperación Financiera No Reembolsable del Japón es el siguiente.

Solicitud (Presentación de una solicitud oficial por el país receptor)

Estudio (Estudio de Diseño Básico conducido por JICA)

Evaluación y Aprobación (Evaluación del Proyecto por el Gobierno del Japón y aprobación por el Gabinete)

Decisión de Realización (Firma del Canje de Notas por ambos gobiernos)

Realización (realización del Proyecto)

2) En la primera etapa, el Gobierno del Japón (el Ministerio de Relaciones Exteriores) estudia la solicitud formulada por el país receptor si el Proyecto es apropiado para la Cooperación Financiera No Reembolsable. Si se confirma que la solicitud tiene alta prioridad como Proyecto para la Cooperación Financiera No Reembolsable, el Gobierno del Japón ordena a JICA a efectuar el Estudio.

Luego viene la segunda etapa, que se refiere al Estudio de Diseño Básico; JICA realiza este estudio, en principio, contratando una compañía consultora japonesa.

En la tercera etapa, la Evaluación y la Aprobación, el Gobierno del Japón evalúa y confirma que el Proyecto es apropiado para la Cooperación Financiera No Reembolsable, en base al informe de Diseño Básico elaborado por JICA en la segunda etapa, luego envía el contenido del Informe al Gabinete para su aprobación.

En la cuarta etapa, la Decisión de Realización, el Proyecto aprobado por el Gabinete se firma un Canje de Notas por los representantes del Gobierno del Japón y del Gobierno receptor.

Durante la realización del Proyecto, JICA extenderá ayudas necesarias al Gobierno receptor en los procesos de licitación, contrato, etc.

2. Estudio de Diseño Básico

1) Contenido del Estudio

El Estudio de Diseño Básico conducido por JICA está destinado a proporcionar el documento básico necesario para que el Gobierno del Japón evalúe si el Proyecto es viable o no para el sistema de la Cooperación Financiera No Reembolsable del Japón. El contenido del Estudio incluye:

- a) confirmación de los antecedentes, el objetivo, la eficiencia del Proyecto, y la capacidad de la organización responsable para la administración y mantenimiento del Proyecto.
 - b) examen de la viabilidad técnica y socio-económica.
- c) confirmación del concepto básico del Plan Optimo del Proyecto a través de la mutua deliberación con el país receptor.
 - d) preparación del Diseño Básico del Proyecto.
 - e) estimación del costo del Proyecto.

El contenido del Proyecto aprobado arriba mencionado no necesariamente coincide totalmente con la Solicitud original, sino que se confirma en consideración al esquema de la Cooperación Financiera No Reembolsable.

Al realizar el Proyecto bajo la Cooperación Financiera No Reembolsable, el Gobierno del Japón desea que el Gobierno del país receptor tome todas las medidas necesarias para promover su auto-suficiencia. Esas medidas deberán asegurarse aunque estén fuera de la jurisdicción de la entidad ejecutora del Proyecto en el país receptor. Por lo tanto, la ejecución del Proyecto es confirmada por todas las organizaciones relevantes en el país receptor mediante las Minutas de las Discusiones.

2) Selección de la compañía consultora

Al realizar el Estudio, JICA selecciona una de las compañías consultoras - entre aquellas registradas en JICA - mediante una licitación en la que presentan sus propuestas. La compañía seleccionada realiza el Estudio de Diseño Básico y elabora el Informe bajo la supervisión de JICA. Después de la firma de Canje de Notas, con el fin de asegurar coherencia técnica entre el Diseño Básico y el Diseño Detallado, JICA recomienda al país receptor emplear la misma compañía consultora que se hizo cargo del Diseño Básico para el Diseño Detallado y supervisión de la realización del Provecto.

3. Esquema de la Cooperación Financiera No Reembolsable

1) Cooperación Financiera No Reembolsable

La Cooperación Financiera No Reembolsable consiste en la donación de fondos que no requiere la obligación de reembolso por parte de los países receptores, y permiten a través del fondo adquirir equipos, materiales y servicios (servicios técnicos, transportes, etc.) necesarios para el desarrollo económico y social de los países, bajo las normas siguientes y las leyes relacionadas del Japón. La Cooperación no se extiende a donaciones en especie.

2) Firma de Canje de Notas

En la realización de la Cooperación Financiera No Reembolsable, se necesita el acuerdo y la firma del Canje de Notas (C/N) entre ambos gobiernos. En el C/N se aclaran el objetivo, el período efectivo de la donación, las condiciones de realización y el límite del monto de la donación.

3) Período de ejecución

El periodo efectivo de la donación debe ser dentro del mismo año fiscal del Japón (del 1 de abril hasta el 31 de marzo del siguiente año) en el que el Gabinete aprobó la cooperación. Durante este período debe concluirse todo el proceso desde la firma del C/N hasta el contrato con la compañía consultora o constructora, incluvendo el pago final.

Sin embargo, en el caso de un retraso en el transporte, instalación o construcción por la condición de clima u otros, existe la posibilidad de prolongar a lo más por un año (un año fiscal) previa consulta entre ambos gobiernos.

4) Adquisición de los productos y servicios

La Cooperación Financiera No Reembolsable será utilizada apropiadamente por el Gobierno del país receptor para la adquisición de los productos japoneses o del país receptor y los servicios de nacionales japoneses y nacionales del país receptor para la ejecución del Proyecto: (El Término "nacionales japoneses" significa personas físicas japonesas o personas jurídicas japonesas controladas por personas físicas japonesas.)

No obstante, lo arriba mencionado, la Cooperación Financiera No Reembolsable podrá ser utilizada, cuando los dos Gobiernos lo estimen necesario, para la adquisición de productos de terceros países (excepto Japón y el país receptor) y los servicios para el transporte que no sean de los nacionales japoneses ni de nacionales del país receptor.

Sin embargo, considerando el esquema de la donación del Japón, los contratistas principales para la ejecución del Proyecto como consultores, constructores y proveedores deberán ser nacionales japoneses.

5) Necesidad de Verificación

El Gobierno del país receptor o la autoridad designada por él, concertará contratos, en yenes japoneses, con nacionales japoneses. A fin de ser aceptable, tales contratos deberán ser verificados por el Gobierno del Japón. Esta verificación se debe a que el fondo de Donación proviene de los impuestos generales de los nacionales japoneses.

6) Responsabilidad del Gobierno Receptor

El Gobierno del país receptor tomará las medidas necesarias como sigue:

- a) asegurar la adquisición y preparación del terreno necesario para los lugares del Proyecto, y limpiar y nivelar terreno previamente al inicio de los trabajos de construcción.
- b) proveer de instalaciones para la distribución de electricidad, suministro de agua, el sistema de desagüe y otras instalaciones adicionales dentro y fuera de los lugares del Proyecto.

- c) proporcionar los edificios y los espacios necesarios en caso de que el Proyecto incluya la provisión de equipos.
- d) asegurar todos los gastos y la pronta ejecución del desembarco y despacho aduanero en el país receptor y en el transporte interno de los productos adquiridos bajo la Cooperación Financiera No Reembolsable.
- e) eximir del pago de derechos aduaneros, impuestos internos y otras cargas fiscales que se impongan a los nacionales japoneses en el país receptor con respecto al suministro de los productos y los servicios bajo los Contratos Verificados.
- f) otorgar a nacionales japoneses, cuyos servicios sean requeridos en conexión con el suministro de los productos y los servicios bajo los Contratos Verificados, las facilidades necesarias para su ingreso y estadía en el país receptor para el desempeño de sus funciones.

7) Uso Adecuado

El país receptor deberá asegurar que las instalaciones construidas y los productos adquiridos bajo la Cooperación Financiera No Reembolsable sean debida y efectivamente mantenidos y utilizados asignando el personal necesario para la ejecución del Proyecto.

Deberá también sufragar todos otros gastos necesarios, a excepción de aquellos gastos a ser cubiertos por la Donación.

8) Reexportación

Los productos adquiridos bajo la Cooperación Financiera No Reembolsable no deberán ser reexportados del país receptor.

9) Arreglo Bancario

- a) El Gobierno del país receptor o la autoridad designada por él deberá abrir una cuenta bancaria a nombre del Gobierno del país receptor en un banco en el Japón (en adelante, referido como "el Banco"). El Gobierno del Japón llevará a cabo la Cooperación Financiera No Reembolsable efectuando pagos, en yenes japoneses, para cubrir las obligaciones contraídas por el Gobierno del país receptor o la autoridad designada por él, bajo los Contratos Verificados.
- b) Los pagos por parte del Japón se efectuarán cuando las solicitudes de pago sean presentadas por el Banco al Gobierno del Japón en virtud de una autorización de pago (A/P) expedida por el Gobierno del país receptor o la autoridad designada por él.

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Anexo -4

PRINCIPALES MEDIDAS QUE HAN DE TOMAR AMBOS GOBIERNOS

item	Descripción	Ser asumido por la Cooperación Financiera No Reembolsable (Parte Japonesa)	Ser asumida por el país receptor
	Pagar las siguientes comisiones a un Banco del Japón por los		
1.	servicios bancarios de conformidad con el Arreglo Bancario (A/B)		
	1) Comisión de aviso de Autorización de Pago (A/P)		
	2) Comisión de pago		
<u> </u>	Asegurar la pronta ejecución de la descarga y despacho aduanero		
2.	en el Puerto de desembarque		
-	1) Transporte marítimo (aèreo) de los productos desde el Japón	_	
<u> </u>	hasta el país receptor	<u> </u>	
ļ	Exoneración de impuestos y despacho aduanero de los productos en el puerto de desembarque		
 	Transporte interno desde el puerto de desembarque hasta los		, RD
	sitios del Proyecto.		
3.	Otorgar a los nacionales japoneses cuyos servicios sean requeridos con relación a los suministros de los productos y los servicios bajos el contrato venificado, las facilidades necesarias para su ingreso y estadía en el país receptor.		
4.	Eximir a los nacionales japoneses de los derechos aduaneros, impuestos internos y otros gravámenes fiscales relacionados con el suministro de los productos y servicios bajo el contrato verificado.		
5.	Mantener y usar adecuada y efectivamente los equipos suministrados por el Sistema de la Cooperación Financiera No Reembolsable.		•
6.	Hacerse cargo de todos los gastos, que no están incluídos en el Sistema de la Cooperación Financiera No Reembolsable, necesarios para el transporte y la instalación de los equipos.		:



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Agosto de 2002

-				Pha	sei		Phase		hase2	1S62	
. i	C6digo	Descripcion de Producto	Facturate	Ingresado (MINSA)	Distribudo :	3	Facturado	Ingresado (MINSA)	Distribudo	* *	
			O	·Ø	3 :	3/2	0	2	3	3/2	*
quip	os para PA	I. Nebulizadores						. :	:		·
1		vacuna MMR	700.000	700,000.	700,000	100.0%	182,000:	182,000	182,000	100.0%	·
2		vacuna Pentavalente	500,000	500.000	500,000:	100.0%	150,000	150,000	150,000	100.0%	
3		jeringas Descartables	120.000	119,000	119,000	100.0%	332,000	332.000	332,000	100.0%	
4 -		cajas para jeringas	12,000	12,000	12,000	100.0%	3,400	3,390	3,390	100.0%	
5		sistema de refrigeradoras solares fotovoltaicas	30	30	30	100.0%	34	34	34	100.0%	
6		nebulizadores	43.	43	43	100.0%	65:	65	65	100.0%	
ledi	camentos				:			:	. 1		
1	01010100	bencilpenicilina cristalina (1 Mill. UI)	251.700	251,700	251,700	100.0%	224,000:	224,000	222,636	99.4%	
2	01010110	bencilpenicilina G procainica (0.8 MUI)	3,131,600:	3.131,567	116,678	3.7%	1,182.000	1,182,799	75	0.0%	
3	01010120	bencilpenicilina G benzatinica (1.2 MUI)	407,400	407,350	326,803	80.2%	208.000	206,700	119,832	58.0%	
4	01010130	dicloxacillina (125mg/ 5 ml)	35.000	35.000	35,015	100.0%	- :	;	-	-	
5	01010140	amoxicilina (250 mg/5 ml)	16,900.	16,900	16,923	100.1%	90,000	90,000	90,000	100.0%	
6	01010200	eritromicina Etilsuccinato(250mg/5ml)	25.000	25,000	25,005	100.0%	-		-	-	
7	01010300	doxicoclina Hiclato(100mg)	485.000	485,000	485,000	100.0%	-		-	_	
8	01010330	cloranfenicol succinato socico (1 g)	20.200	20,197	20,197	100.0%	31,000	31,000	3,806	12.3%	
9	01010420	gentamicina sulfato (20 mg/ 2 ml)	102.700	102,700	94,142	91.7%	79,000	78,600	28,452	36.2%	
0	01010500	trimetoprim sulfametoxazol (40 mg + 200 mg/5 ml), Jarabe	558,100	557,093	586,646	105.3%	500,000	500,014	201,126	40.2%	
1	01010510	trimetoprim sulfametoxazol (80 mg + 400 mg)	6,457,000	6,463,420	6,047.195	93.6%	4,023.000	4,018,000	2,849,817	70.9%	
2	01010700	nistatina (100,000 UI/1ml)	64,500	64,499	61,773	95.8%	34,000	34,020	34,017	100.0%	
3	01010810	cloroquina Fosfato (250mg)	1,600.000	1,600,270	1,610,200	100.6%			-	-	
4	01020620	albendazol (100 mg/ 5 ml)	165,700	165,684	165.683	100.0%	99,000	99,100	99,336	100.2%	
5	01020625	albendazol (200 mg)	537,000	537,000	534,000	99.4%			-		
6	01030100	salbutamol sulfato (2 mg/5 ml), Jarabe	391,500	391,472	390,118	99.7%	252,000	251,892	86,792	34.5%	
7	01030108	salbutamol suifato (5 mg/1ml, 0.5%)	10,800	10.800	16,815	100.1%	13,000	13.000	6,967	53.6%	
8	01060110	hartman solución standard (1000ml)	189,100	189,100	163,332	86.4%	71,000	70,957	23,017	32.4%	
9	01060120	ctoruro de sódico (1000ml, 0.9%)	40,000	40,000	40,000	100.0%	-	-	-	-	
0	01060300	agua destilada (10mi)	1,000,000	998.446	998,979	100.1%	-	-	-		
1	01060540	solución electrolitos orales	3,174,500	3,174,500	2,368.243	74.6%	1,677,000	1,678,360	1,027,078	61.2%	
2	01100600	ritodrina clorhidrato (10 mg/1ml)	4,700	4,697	1,554	33.1%	5,000	5,000	5.000	100.0%	
3	01120100	oxitetraciclina 1%	300,000	300,000	301,018	100.3%	-		-	-	
4	01130500	acido salicílico+vaselina(5%)	320,000	319,942	323.015	101.0%			-	-	
5	01160210	paracetzmoi (100 mg/mi)	829,900	830,463	815.494	98.2%	582,000	582,703	391.097	67.1%	
5	.01160216	paracetamoi (500 mg)	1,000,000	1,000,000	1,000,000	100.0%	_	_	_	_	
7	01170100	dexametasona fosfato sódico (4 mg/ 2 ml)	34.400	34,400	34.390	100.0%	59,000	58,997	36,211	61.4%	
3	01170120	prednisona (5 mg)	-	-	-		757,000	756,990	754.798	99.7%	
-	01050120	sulfato ferroso, hierro elemental (15 mg/ 0.6 ml)	3,157,000	3,156,686	3,274,244	103.7%	3,655,000	3,658,986	540	0.0%	
3	01150120	retinol/ vitamina A (25,000 UI/ gota)	17,100	16,900	16,900	100.0%	19,000	19,000	13,415	70.6%	

ta: 1. La diferencia entre el facturado y el ingresado MINSA se debe a los daños ocasionados en el transporte y la discrepancia entre la cantidad entregada del fabricante y el ingreso confirmado per MINSA.

^{2.} Los items en color gris son los medicamentos para AIEP!

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Appendix 6 6. Inventory List of Solar Refrigerators

SILAIS	Municipio	Health Facility	Quantity	Source of Revenue
BOACO	CAMOAPA	P/S LA EMBAJADA	1	PAHO
	}	P/S YALWAS	1	FSS
		P/S LA CALAMIDAD	1	Japan
	BOACO	P/S SN JOSE DE LA VEGA	1 - 1	FSS
	S.J. REMATE	P/S LOS BAJOS DE TOMATOYA	1 1	FSS
	TEUSTEPE	P/S SAN JERONIMO	1	FSS
	TEOD TEILE	P/S LA LAGUNA	1 1	FSS
	[P/S LAS CANITAS	1 1	FSS
			- 	
		P/S LA CUESTA DEL RESARIO	1 1	FSS
CARAZO	STA. TERESA	P/S EL SOL	1	FSS
		P/S LA PITA DEL CARMEN	1	Japan
		P/S PASO DE LA SOLERA	1 1	FSS
CHINANDEGA	POSOLTEGA	P/S LOS ZANJONES	1	Prosilais
	SN FCO DEL NORTE	P/S GUASIMAL	1	Prosilais
	EL VIEJO	P/S LA CURVA .	1	Prosilals
		P/S COSIGUINA	1	Prosilais
	ļ	P/S EL BEJUCO	1 1	Prosilais
	1	P/S MECHAPA	1	FSS
CHONTALES	SANTO DOMINGO	P/S EL JOBITO	1 1	Nederland
OHONIALLO	DANTO DOMINGO	P/S LOS CHINAMOS	 	Unidentified
		P/S EL AYOTE	1	Nederland
	40074444		. 	
	ACOYAMA	P/S SAN FELIPE	1 1	FSS
		P/S EL ZAPOTE	11	Unidentified
	LA LIBERTAD	P/S BETULIA	11	FSS
	JUIGALPA ,	P/S EL JUSTE	11	FSS
	NUEVA GUINEA	P/S LA UNIÓN	1	Nederland
	ł	P/S FONSECA	1 1	Unidentified
		P/S SERRANO	1 1	Unidentified
	VILLA SANDINO	P/S COLONIA RIO RAMA	1 1	Unidentified
	STO. TOMAS	P/S EL JICARITO	1 1	FSS
	0,0,10,	P/S EL GUABO	1 1	Unidentified
	RAMA	P/S WAPI		Nederland
	P/S MOVIL		-	Unidentified
	ł	P/S CANO DE GARCIA	 	Unidentified
	l l			
FOTELL		P/S LAS IGUANAS	1 1	Nederland
ESTELI	SAN NICOLAS	P/S EL JICARO	1 1	Japan
		P/S SANTA CLARA	!	Japan
	CONDEGA	P/S VENECIA	1 1	Japan
		P/S SAN JOSE DE PIRE	1 1	MINSA
	LA TRINIDAD	P/S CHAGUITE BLANO	1	MINSA
	LIMAY	P/S GUANACASTON	1	MINSA
	į.	P/S LOS ENCUENTROS	1	FSS
GRANADA	GRANADA	P/S MOMBACHO	1 1	Japan
JINOTEGA	WIWILI	P/S PLAN DE GRAMMA	1 1	Prosilais
MIO I ECA	***************************************	P/S SAN ANDRES	 	PAHO
		P/S WAMBLAN	1	Prosilais
		P/S EL CARMEN		
	· •		ļ <u>- 1</u>	Japan
		P/S WALAKITAN	1	Japan
		P/S YACALPANANI	1	Japan
		P/S MALECONCITO	1 1	Japan
	LA CONCODIA	P/S EL COYOLITO	1 1	Unidentified
	EL CUA	P/S PITA DEL CARMEN	1 1	Japan
		P/S EL BOTE	1 1	Japan
	BOCAY	P/S WISO	1	PAHO
		P/S AYAPAL	1 1	Japan
		P/S AMAKA	├ <u> </u>	Japan
	1	P/S PEDERNALESW-(el tigre)	 	
	DANTACAZA	· · · · · · · · · · · · · · · · · ·		Japan
	PANTASMA	P/S PLANESA DE VILAN	1	Japan
		P/S JIQUELITE	1 1	Unidentified

SILAIS	Municipio	Health Facility	Quantity	Sourc Rever
LEON	SAUCE	P/S SALALES	1	Japa
		P/S VALLE DE SAN ANTONIO	1	Japa
	ACHUAPA	P/S EL BARRO	1	Jap
MADRIZ	SN JUAN RIO COCO	P/S SN JOSE DEL OJOCHE	1 1	Prosi
MADINE	SIT TOAIT THE COCC	P/S SAN LUCAS	- 	FS
	CUSMAPA	P/S CARRIZO		
			- }	Jap
	TELPANECA	P/S SANTO DOMINGO		F <u>S</u>
	TOTOGALPA	P/S CUJE	1 1	Prosi
MATAGALPA	MATAGALPA	P/S JUCUAPA ABAJO	1 1	Alcal
	MATIGUAS	P/S PANCASAN	. 1	A.E.H
		P/S JOBO	1 1	E.l
		P/S LIKIA	1 1	E.l
	DARÍO	P/S TOTUMBLA	11	PA
	ł	P/S CASA VIEJA	1	FS
		P/S TRUJILLO	1	Pros
	DARIA	P/S GUAPOTAL	1	Pros
		P/S LA TRONCA	1	Pros
	RANCHO GRANDE	P/S KUSKAWAS		A.E.H
	SEBACO	P/S AGUA SARCAS	- -	A.E.H
	PAIWAS	P/S UBU NORTE	·	Pros
	SAN DIONISIO	P/S EL CARRIZAL	- 	Pros
			· — - — + -	· · · · · —
	RÍO BLANCO	P/S MULUKUKU	1	PAI
		P/S SAN ANDRES		Jap
		P/S WANAWAS	1	Jap
	WASLALA	P/S ZINICA	11	Jap
	f	P/S PUERTO VIEJO	1	FS
		P/S EL NARANJO	1	Pros
		P/S KUBALI	1	FS
UNEVA SEGOVIA	WIWILI	P/S BANASITO	1	Jap
	QUILALI	P/S SAN BARTOLO	1	Pros
		P/S EL COCO	1	Pros
		P/S PANALI		Pros
	JICARO	P/S LOS ENCINOS	- 	FS
	SICARO	P/S SAN GERONIMO	-	FS
	LALADA			
	JALAPA	P/S ESCAMBRAY	1 1	FS
		P/S LA FLORECIDA		FS
		P/S TERRERIOS		FS
	MOZONTE	P/S SAN ANTONIO	1 1	FS
	MURRA	P/S SAN PABLO	1	FS
		P/S EL ROSARIO	11	Pros
R.A.A.N	WASPAN	P/S SAN CARLOS	1	MIN
		P/S ANDRES	1	MIN
		P/S BILWASKARMA	1	R.C
		P/S RAITHI	1 1	Jap
		P/S BISBONA	1	Jap
		P/S FRANCIA SIRPI	-	Jap
	į	P/S SAN GERONIMO		Jap
	SIUNA	P/S LA QUEBRADA		
	SIUNA			Jap
		PIS EL HORMIGUERO	}	Jap
		P/S EL GUINEO		Jap
		P/S COPERNA		Jap
		P/S SIKILTA	1	Jap
		P/S SANTA RITA	1	Jap
	PUERTO CABEZAS	P/S PRINZAPOLKA	1	Jap
		P/S NINA YURI / SANDY BY	1	Jap
		P/S YULO	1	Jap
]	P/S SANTA MARTHA		Jap
	BONANZA	P/S MUSAWAS		Jap
	DOITINIES.	P/S KUABHUL		
•	ROSITA			Jap
	NUSITA	P/S EL EMPALME		Jap
		P/S ALAMIKAMBA	_ - !	Jap
		P/S WASAKIN	1	Jap
		P/S SAHSA	1	Jap
	Ī	P/S SAHSA	1	J

SILAIS	Municipio	Health Facility	Quantity	Source of Revenue
R,A.A.S	GRANDE P/S AUSBERTO GUTIERREZ		1	Prosilais
		P/S MAKANTAKA	1	Japan
		P/S AGUSTIN WING CHONG	1	Japan
	BLUEFIELDS	P/S SAN FCO. KUKRA RIVER	1	Japan
		P/S PUNTA GORDA	1	Japan
	TORTUGUERO	P/S ORINOCO	1	Prosilais
		P/S PUEBLO NUEVO	1	Japan
		C/S MIGUEL ANGEL PLAZAOLA	1	Prosilais
	KUKRA HILL	P/S BIG LAGOON	1	Japan
	KARAWALA	P/S MILDRED GOMEZ S.	1	Prosllais
	}	P/S ERNESTO SEQUEILRA	1	Japan
	LAGUNA DE PERLA	C/S PERLA MARIA NORORI	1	Prosllais
		P/S TASPAPAUNI	1	Prosllais
RIO SAN JUAN	MARRITO	P/S MAYASAN	1	Japan
	SAN MIGUELITO	P/S LA CONQUISTA	1 1	Japan
	SAN CARLOS	P/S MEXICO	1 1	Japan
		P/S ELVIS CHAVARRIA	1 1	Japan
		P/S PAPATURRO	1	Japan
		P/S MATA DE CANA	1	Japan
	EL CASTILLO	P/S LAS COLINAS	1	Japan
		P/S BUENA VISTA	1	Japan
		P/S SAN JUAN DEL NORTE	1	Japan
		P/S BUENA VISTA	1	PAHO
		P/S LAS MARAVILLAS	1	PAHO
		P/S EL GUASIMO	1	PAHO
RIVAS	CARDENAS	P/S COLON	1	Japan
	OMETEPE	P/S PALMA	1	Japan
		P/S TICHANA	1 1	Japan
TOTAL			151	
Remark	PAHO: Pan American H FSS: Fondos Sociales S Prosilais: Sweden/UNICE A.E. Health: NGO in USA	uplementarios EF/OPS	•	

7. Inventory List of Nebulizers

"The cell with	pattern is th	e facility in where	nebulizer is	installe

					he cell with pattern is the facility	
SILAIS	Municiplo	Health Facility	Requested	Current	Source of	Equipment
		1 Tourist admity	Quantity	Quantity	Revenue	Condition
	BOACO	C/S Ramón Guillen Navarro	1	1 1	MINSA	Good
BOACO	1	C/S Ramon Tolodo	powerskii #grakii (6	1	HOPE	Good
		P/S Tierra Azul	1] '	nore.	3000
	1	P/S San Buenaventura	'	1	lien-	
	1				HOPE	Good
		P/S Santa Elisa	1	1	HOPE	Good
		P/S Yula Sacal		1	MINSA	Good
	1	P/S El Paraisito	1			
	1	P/S Boaco Vieio	888888888888	Į.		1
	i	P/S Las Lagunas	1			!
	l	HP José Nieborowsky	2	}	J	j
	CAMOAPA	C/S San Francisco	100 00000 0 1 001000	 	11055	ļ
	CAMIDAFA	C/S Sall Francisco		1	HOPE	Good
	1			1	PROSALUD	Good
	i	P/S La Embajada	1	1	MINSA	Good
	1	P/S Las Lajas	1 1	ì		
		P/S La Calamidad	1 1			
i	SAN JOSE DE LOS	C/S San José de los Remates	 	1	норе	Good
	REMATES	P/S Cumica Sur		;	Banco Mundial	Good
	SANTA LUCIA					
	SANTA LUCIA	C/S Santa Lucia	1	3	ACSUR Segovia	Good2, Out of order1
		P/S Boaquito		1	HOPE	Good
	TEUSTEPE	C/S Testepe(Santa Rita)	100	1	HOPE	Good
		, ,	· ·	1 1	Banco Mundial	Out of order
		P/S El Empalme	1 1	1	Banco Mundial	Out of order
	SAN LORENZO	C/S Amed Campos		2	PROSALUD	Good
	OF THE CONTENES	Ord Amed Campos		1		Good
	i				Japan	
				1 1	HOPE	Good
				1	Banco Mundial	Good
		P/S El Rito	1	l .		
	l	P/S Tecolostote	1	l :		
	Į.	P/S San Lorenzo	1 1			
		P/S Miramontes	1 1	l :		
	HOSPITAL	170 Milationas	 			
Subtotal	HOSFITAL		19	22		
Subtotal						
	DIRIAMBA	C/S Dirlamba	2	1	PSMI	Out of order
CARAZO	į	P/S Buena Vista del Norte	1 1			
		P/S San Gregorio	1 1	l 1	PSMI	Good
	ľ	P/S Casares	1 1		. =,,	
		P/S La Trinidad	1		•	
	DOLORES	C/S Dolores	1	1	PSMI	Good
			- '			
	JINOTEPE	C/S Pedro Narváez Cisneros	i .	4	PSMI	Good3, Out of order1
	1	P/S Ana Virgen Noble	1	1 1	PSMI	Out of order
	Į.	P/S Guisquillapa	1	1 1	PSMI	Out of order
	Ī	P/S Villa Madre Proletaria	1	1 1	PSM1	Out of order
	l l	P/S Huehuete	\$15.80 1 835.E	1 1	PSMI	Out of order
		P/S Román Esteban	1	lil	PSMI	Out of order
•	l l	P/S El Aguacate	i		PSMI	Out of order
	LA CONQUISTA	C/S La Conquista				
				-	PSMI	Good
	LA PAZ DE CARAZO	C/S La Paz de Carazo	1	1	PSMI	Out of order
		P/S Esquipulas		1	Plan International	Good
	EL ROSARIO	C/S El Rosario	57Y0740.650	1	CEPS	Good
	1		100 - 000 - 000 - 000 - 000	1	PSMI	Out of order
	SAN MARCOS	C/S S. F. Vivas(San Marcos)	\$100 per al 11 at 1921	1		
	SAN MARCOS				Halmond Holanda	Good
		P/S La Cruz	1 1	1	PAPSR	Out of order
	1	P/S Marvin Corrales		1	Inhabitant	Good
	1			1	PSMI	Out of order
	1	P/S Duice Nombre de Jesús	1 1	1	PSMI	Out of order
	1	P/S Fatima	'	1	Halmond Holanda	Good
	SANTA TERESA		+ .			
	OANIA IEKESA	C/S Santa Teresa	1 1	1	PSMI	Good
	1	P/S El Sol	1 1			
		P/S San José de Gracia		1	PSMI	Good
Subtotal			21	26		

SILAIS	Municipio	Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
	CINCO PINOS	C/S Luis Felipe Monceda	1			
HINANDEGA	CORINTO	C/S José Shendel	1	4	Japan	Good3, Out of order
		P/S Jesús de la Buena Esperanza	1 1	1 1		
		P/S José Shendel	1 1			
		P/S Rotterdam	1			
	CHICHIGALPA	C/S Julio Duran	1	2	Japan	Good
	İ	La Cruz	1			
		P/S Wells P/S Erick Ramirez	1 1	1 1		
		P/S El Pellizco	1	1 1		
		P/S Sirama	1	1 1		
	CHINANDEGA	C/S Villa 15 de Julio	 	 	· · · · · · · · · · · · · · · · · · ·	
	CHINANDESA	C/S Roberto Cortés		1 1	Japan	Good
	1	P/S Mauricle Martinez	1 1	. '	Japan	3000
		P/S Macso	1 1	[•
		P/S Belén	1 1	j		i
		P/S Roberto González	;			İ
		P/S Florida	i i :	1 1		- 1
		P/S El Rosario	1 1	1		
		P/S Rancheria	1			1
		P/S Carios Fonseca	1			1
	}	P/S Héroes y Mártires del Calvario	1			1
	l .	P/S Pedro J. Chamorro	1 1	}		}
		P/S 12 de Septiembre	1	ļ <u>.</u>		
	EL REALEJO	C/S El Reslejo	1			
		P/S Terencio Munguia	1 1	l i		
	1	P/S La Bascula	1 1			
		P/S Alemania Federal	1			
	EL VIEJO	C/S Teodoro King	1"	1	Japan	Good
		C/S José Rubi	1 1	1	Japan	Good
		P/S Tom Valle	1 !			
		P/S Kliaka	1 !			
	J	P/S Los Kilómetros P/S El Pestoral	1 !			
		P/S El Bejuco	1 ; 1	[ſ
		P/S Esquipulas				
		P/S Aristides Rodríguez				
		P/S Lucrecia Lindo				
	i	P/S Rio Chiquito	1 1			
	l .	P/S Gancho de la Mona	1 1 1	' I		1
	POSOLTEGA	C/S Carlos M. Jarquin	1			
	ļ	P/S Juan XXXIII	1 1			
	Į.	P/S Zanjones	1 1			
		P/S Bethseda	1 1			
	1	P/S El Tololar	1 1	1		}
		P/S Edwin Castro	1 1			
	1	P/S La Virgen	1 1 1			
		P/S Tanque	1			
	PUERTO MORAZAN	C/S Tonala	1			
		P/S Puerto Morazan	1			
	SAN FRANCISCO DEL	C/S Roberto Cortés	1			
	SAN PEDRO DEL	C/S Germán Pomares Ordonez	1 1	1	Japan	Good
	NORTE	P/S El Cheparral	.			
	SANTO TOMAS DEL	C/S Santo Tomas del Norte		İ		
	NORTE	P/S Paso Hondo	 			
	SOMOTILLO	C/S Raymundo Garcia P/S San Antonio	1 1	2	Jepan	Good 1, Out of order
	1	P/S San Antonio P/S Las Mesitas		l l		
	1	P/S Los Limones				
	VILLA NUEVA	C/S Carolina Osejo	 		Japan	Good
	1	P/S Hermanos Sorianos] ; [' 1	Aehan	6000
	1	P/S Evelio Salazar	1 ; 1	1		1
	1	P/S Valerio Andino	1 1			
	1	P/S El Bonete		ļ		
		P/S Mauricio Demier				
		P/S Lucila Betanco				
	J	P/S Fe y Alegria] ; }			
	1	P/S Vicente Alvarez	(i (j		
	HOSPITAL	HP España	 	5	Japan	Good
		HP Mauricio Abdalah		ĭ	Japan	Good
Subtotal			66	19	4-baii	- 5000

SILAIS	Municipio Health Facility		Requested Quantity	Current Quantity	Source of Revenue	Equipment
	ACOYAPA	C/S Acoyapa	Quantity	1 1	Japan	Condition Good
CHONTALES		P/S Zona D Acoyapa	1			
	COMALAPA EL RAMA	C/S Come Lapa C/S Carlos Huembes(Esperanz		4	Roman Catholic Church	Good
	EL RAMA	C/S Carios Auembes(Esperanz	a)	'	Japan	Good
		C/S El Rama	1			f
	JUIGALPA	P/S San isidro	11	i		
	JUIGALPA	C/S Adan Barillas Huete P/S Zona # 4	1	1	Japan	Good
		P/S San Francisco Zona # 1	seni dedad			
	LA LIBERTAD	C/S La Libertad	1	. 1	Japan	Good
	MUELLE DE LOS BUEYES	C/S Muelle de los Bueyes	1	1 1	Japan USARMY	Good Good
	BOLIEG	P/S Daniel Amador (La Batea)	1	'	USARMI	6000
		P/S Presilla	1			
	NUEVA GUINEA	C/S Jacinto Hernández	1	1	6d 6	Good
	ſ				Ayuda en Accion HOPE	Good Good
			1	5	MINSA	Out of order
		P/S Naciones Unidas	1			
		P/S El Verdum	1			
		P/S Los Angeles P/S La Unión	1			
		P/S Zona 7				
		P/S Zona 5	1			
		P/S San Antonio	1 1			
	CUAPA	P/S Yolaina C/S Cuapa	1	1	Japan	Good
		0.0 0000		1	HOPE	Good
	EL 0004	<u> </u>		1	Roman Catholic Church	Good
	EL CORAL	P/S El Coral P/S Los Santos	1	1	HOPE	Good
	EL AYOTE	C/S El Ayote	1	1	Japan	Good
	SAN PEDRO DE	0/0 0 0	100 min (100	1	FORSAP	Good
	LOVAGO	C/S San Pedro de Lovago P/S Bulum		1	HOPE	Good
	SANTO DOMINGO	C/S Santo Domingo	100 PM 100 PM	1	HOPE	Good
	SANTO TOMAS	P/S Los Chinamos	1			
	SANTO TOMAS	C/S José Ramón González		1 2	Japan Funds on hand	Good Good 1, Out of order 1
	1			1	FORSAP	Good
				1	HOPE	Good
	VILLA SAN FRANCISCO (VILLA SANDINO)	C/S La Gateade C/S Villa Sandino	1	1	Japan Dia- International	Good
	(VILLA BANDINO)	P/S Muhan	1 1	' ' }	Plan International	Good
		P/S Villa San Francisco	1			
Subtotel STELI	- COTELL		28	33		
e i ELI	ESTELI	C/S Leonel Rugama(Esteli) P/S Sante Cruz	1	1		
		P/S Eduardo Selva		1		
			1			
		P/S Oscar Gamez	1 1			
		P/S Héroes y Mártires del Ros.	1 1			
		P/S Héroes y Mártires del Ros. P/S Melania Florian	1 1			
	LA TRINIDAD	P/S Héroes y Mártires del Ros.	1 1 1	2	FSS	Good
	LA TRINIDAD	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón	1 1 1 1 1 1 1 1	1	Japan	Good Good
		P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Japan FSS	
	LA TRINIDAD PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón	1 1 1 1 1 1 1 1	1 1 1	Japan FSS Japan	Good
		P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Japan FSS	Good
		P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo	1 1 1 1	1 1 1	Japan FSS Japan OPS	Good
		P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava	1 1 1 21 781 (82)	1 1 1 1 1	Japan FSS Japan OPS FSS FSS	Good
		P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos	1 1 1 1	1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS	Good Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava	1 1 1 21 781 (82)	1 1 1 1 1	Japan FSS Japan OPS FSS FSS	Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos C/S Ada María López P/S El Jocote	1 1 1 23 78 18 8 8 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS FSS Japan	Good Good Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos C/S Ada María López P/S El Jocote P/S La Laguna	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS Japan FSS	Good Good Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos C/S Ada María López P/S El Jocote P/S La Laguna P/S San José de Pire	1 1 1 23 78 18 8 8 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS Japan FSS	Good Good Good Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos C/S Ada María López P/S El Jocote P/S La Laguna	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS Japan FSS	Good Good Good
	PUEBLO NUEVO	P/S Héroes y Mártires del Ros. P/S Melania Florian P/S El Regadio C/S Fátima Pavón P/S San Francisco C/S Celia Sánchez P/S Guasuyuca Pueblo Nuevo P/S La Pava P/S Los Llanos C/S Ada María López P/S El Jocote P/S La Laguna P/S San José de Pire P/S Santa Teresa	1 1 1 21 781 18822	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Japan FSS Japan OPS FSS FSS Japan FSS FSS	Good Good Good Good Good

SILAIS	Municipio	Health Facility	Requested	Current	Source of	Equipment
OBANIARA	<u> </u>		Quantity	Quantity	Ravenue	Condition
GRANADA	DIRIA	C/S Virgen de los Desamparad. C/S Con Came	1	1 3	Banco Mundial Actores sociales	Good Good2, Out of order1
	DIRIOMO	C/S Pedro Arauz Palacios	1	1 1	Visión Mundial	Good
				1	Actor Social	Out of order
		P/S Guanacaste	1		· · · · · · · · · · · · · · · · · · ·	
	GRANADA	C/S Pedro José Chamorro(Palmir C/S Jorge Sinforoso Bravo	a) 1	2 2	Banco Mundial	Good 1, Out of order 1
		C/S Jorge Sintoroso Bravo		2	Banco Mundial PMSS	Good Good
		C/S HYM	ļ		Banco Mundial	Good
		P/S Pancasan	1 1	1 ' 1	DELICO MUNCIAL	3000
		P/S El Sitio	1	1 1	PMSS	1
		P/S Malacatoya		1 1	Banco Mundial	İ
	ł	DIO 515 .	1.	1 1	Praciante	
		P/S El Rosario P/S Caracolito	1	,	PMSS	
		P/S Capulin # 2			PMSS	
	• 1	P/S El Diamante] 1	1 ' 1	r m.cc	
	NANDAIME	C/S M. Carmelo(Carrasquilla)	alling Constr	1		
	HOSPITAL		4	1	Japan	Good
Subtotal	OUL BOOK		13	19		
JINOTEGA	CUA - BOCAY (EL CUA)	C/S Héroes y Mértires P/S El Bote	1 1	1 1	Japan	Good
SINO I EGA	(22 007)	P/S Santa Rosa	;			
	İ	P/S Abisinia	i			
	ł	P/S Pedernales	. Joseph 1999	1 1		
	1	P/S La Lane	1			
		P/S El Golfo	1 1	:		
	J	P/S Bacayate P/S La Pita	1 1			
	CUA - BOCAY	C/S Ambrosio Mogorron			Japan	Good
	(SAN JOSE DE BOCAY)	P/S El Cedro] 1	'	Japan	5000
		P/S El Ayapal	1 1			
		P/S El Tigre	1 1			
	JINOTEGA	C/S Antonio Lenin Fonseca P/S Mencotal		1		
		P/S Siste	1 1			
	}	P/S Llano de la Tejera	1 1			
		P/S Ernesto Acuña	1000			
		P/S La Fundadora	1 1	1		
	J	P/S La Reforma	1 1			
	LA CONCORDIA	P/S El Nagranjo C/S Flor de Maria Chavarria	- 	1 1	Japan	Good
		P/S El Coyolito	i i	' 1	20 Patri	3000
		P/S Las Quebradas				
	SAN SEBASTIAN DE	C/S Neison Rodriguez	11	1 1	Japan	Good
	YALI	P/S Bijaguai	1 1	1		
	SAN RAFAEL DEL	P/S La Rica C/S Odorico de Andrea		1	lonen	Cond
	NORTE	P/S San Marcos	1 1	'	Japan	Good
		P/S El Plantel	l i			
	SANTA MARIA DE	C/S Adelina Ortega	1	1	Japan	Good
	PANTASMA	P/S Planes de Vilan		Į		
		P/S Loma Alta P/S Zompopera		[
		P/S Jiquelete				
	WIWILI	C/S Jorge Navarro(Wiwill)	1 11			
	1	P/S El Carmen	1 1	- 1		
	1	P/S San Andrés	1 1 1			
	1	P/S Wambian P/S Malecon				
	Į.	P/S Malecon P/S Plan de Grama	1 1			
	İ	P/S Yakaipanani				
	HOSPITAL	<u> </u>	1	2	Japan	† · · · · · · · · · · · · · · · · · · ·

SILAIS	Município	Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
	ACHUAPA	C/S Juan Rafael Rocha		1	Alcaldia-UTREH Holanda	Out of order
EON	EL HOADA			1	Japan	Good
	EL JICARAL	C/S El Jicaral P/S Los Zarzales		1 1	Alcaidía-UTREH Holanda UNICEF	Out of order Good
		P/S Pagro Nica	1	'	UNICEF	3000
	EL SAUCE	C/S El Sauce		1	Alcaldía-UTREH Holanda	
				1 1	OPS	Good4, Out of order1
				3 1	Rochester-FETSALUD	C
		P/S Los Planes	-	'1	Japan Rochester-FETSALUD	Good
		P/S Rio Grande	ł	1	Rochester-FETSALUD	
		P/S Sabana Grande		1	Rochester-FETSALUD	
	LA PAZ CENTRO	C/S Zona # 1		1	Japan Alcaldía-UTREH Holanda	Good Out of order
				1	Médicos sin Fronteras	Good
		P/S Eddy Rizo - El Papalonar		i	FSS	Good
	1	P/S El Papalote		1	Alcaidía-UTREH Holanda	Good
	1	P/S Sabaneta		1 1	Save the children	
		P/S Zona # 2 Raúl Cabezas P/S Noel Solis Ponce-El Tama.	1	1	FSS	Good
		P/S Tecuaname	'	1	Proyecto Hamerz	Good
		P/S Momotombo	1	,		
	LARREYNAGA	C/S Roberto Cortés Mina Limón	9-14-13	1	UNICEF	Out of order
	(MINA LIMON)	P/S Las Lomas de Tolapa		1	Alcaldia-UTREH Holanda	Good
		P/S Las Lomas de Tolapa P/S San Miguelito				
	•	P/S Gaillao	1	1	UNICEF	Good
		P/S Santa Pancha		1	UNICEF	Good
	(MALPAISILLO)	C/S Fanor Urroz Malpaisillo		1		
				1 1		i
		P/S Los Terreros		1		
		P/S El Valle de las Zapatas	1			
		P/S El Barro		1		
	NAGAROTE	C/S Reúl Vargas	1	1	Alcaldía-UTREH Holanda Sueños de Luisa	Out of order
		P/S San Lorenzo		1	Suenos de Luisa FSS	Good Good
		P/S Puerto Sandino	1			5000
		P/S Transito		1	Inhabitant	Out of order
	LEON	C/S La Recolección			4113113 	
		C/S Mantica Berrios		2 1	Alcaldia-UTREH Holanda Alcaldia-UTREH Holanda	Good Good
		1		1	Japan	Good
		C/S Perla María Norori	1	2	Alcaldia-UTREH Holanda	Good
		P/S Oscar Pérez Casar	1	1	UNICEF	Good
		P/S Salinas Grandes P/S William Rodriguez	1 1	1	UNICEF	Good
	1	P/S Calvarito		- 1	Alcaldia-UTREH Holanda	Good
		P/S La Providencia		i	Alcaldía-UTREH Holanda	Good
		P/S William Fonseca		1	Alcaldía-UTREH Holanda	Good
	ŀ	P/S La Arrocera		1	Alcaidía-UTREH Holanda	Good
		P/S Waiter Ferrety P/S Lechecuagos	1	1	UNICEF Alcaidía-UTREH Holanda	Good Good
		P/S 1ro. de Mayo		- i	Alcaldia-UTREH Holanda	Good
		P/S Poneloya		1	Alcaldia-UTREH Holanda	Good
		P/S La Ceiba		1	Alcaidia-UTREH Holanda	Good
		P/S Benjamin Zeledon P/S Villa 23 de Julio		1	Alcaldia-UTREH Holanda	Good
		P/S Fundeci		1	Alcaldía-UTREH Holanda Alcaldía-UTREH Holanda	Good Good
		P/S Troilo		i	UNICEF	Good
		P/S Ruben Dario		1	UNICEF	Good
		P/S Santa Ana		1	ACSUR	Good
		P/S Recreo		1	UNICEF Alceidie-UTREH Holanda	Good Good
		P/S Sutlava	1 1	2	Alcaidia-UTREH Holanda	Good
	QUEZALGUAQUE	C/S Martin I. Granera		1	Alcaldia-UTREH Holanda	Out of order
		pro		1	UNICEF	Good
		P/S Las Mercedes P/S Cristo Rey	į l	1	Hermandad de Brookyne	Good
	TELICA	C/S Telica	1		Hermandad de Brookyne Alcaldia-UTREH Holanda	Good Out of order
			'	i	Spain	Good
		P/S Los Cocos		1	Spain	Good
		P/S Las Marias		1	Save the Children	Good
		P/S El Jicaro P/S San Jacinto		1	Save the Children	Good
	SANTA ROSA DEL	C/S R. P. Tercero(Santa Rosa)	2000 :1 212	1 2	Save the Children UNICEF	Good Good1, Out of order1
	PERON	P/S Mina la India	1	1	Alcaldia-UTREH Holanda	Good 1, Out of order1
	HOSPITAL		 	1	Japan	Good
Subtotal			14	75		

SILAIS	Municipio		Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
	LAS SABANAS		Ivia Ferrufino	1	1	PROSILAIS	Good
	PALACAGUINA	C/S H	sydee Meneses	1	1	FSS	Out of order
MADRIZ					1 1	Japan	Good
	RAN IOSE DE		ucuali Arane u Mártirae de Cuem	1 1	1	FSS	Good
	SAÑ JOSE DE CUSMAPA	C/S H	éroes y Mártires de Cusm	'		Japan Japan	Good
	SAN JUAN DE RIO	C/S 1	F. Moncada(Rio Coco)	1 1	1	PROSILAIS	Good
	coco		, , , , , , , , , , , , , , , , , , , ,		1	FSS	Good
					1 1	Japan	Good
	ļ.	P/S S	nn Lucas-San Juan del R.	1	i		
			Carmen	1			
	SAN LUCAS		éroes y Mártires	1	1	PROSILAIS PROSILAIS	Out of order
	SOMOTO	C/S J	iro Bismark Moncada	1	1	FSS	Good Good
		PIS S	en Juan de Somoto	1	'	130	3004
			Playa		1		
	TELPANECA	C/S Ju	illo Martinez Obendo	1	1	PROSILAIS	Good
	1				1 1	FSS	Good
					1	Japan	Good
			anto Domingo illa Austria	1			
	TOTOGALPA		nesto Che Guevara	1 1	1	FSS	Good
	YALAGUINA		illiam Pacheco(Yalaguina)	200 PT 10 100	1	PROSILAIS	Out of order
	HOSPITAL				2		Good
Subtotal				15	18		
	MANAGUA	C/S R	oger Osorio	2			
ANAGUA		C/S R	oberto Clemente	2	1	Roman Catholic Church	Good
			ancisco Morazan	2	1 1	UAM	Good
			ancisco Buitrago	1	2	PCI/Funds on hand	Good
			ocrates Flores dgard Land	2 2		Fondos Propios Japan	Good Good
			igaro cano illa Libertad	2		Japan GTZ	
		5.5 4		1	i	Félix Sánchez	Good1, Out of order1
	į –	C/S S	ivia Ferrufino	1	1	Japan	Good
	ŀ				2	MINSA	Good
			erios Rugema	1 1	4	Vice-ministerio and SILAIS	Good2, Out of order2
	ł		edro Altamireno	1 1	2	Fondos Propios Medicos sin Fronteras	Good Good
	1		Itagracia alter Ferreti	'	'	Medicos sin Fronteras	G000
			Recreo		l i		
			ene Cieneros				
		P/S B	arrio 380				
	1		an Sebastian				
	1		risto el Rosario] .		3	
			onts Tabor				
			eera Prometida		1		
		P/S N	dgar Mungula elena		1		
			emorial Sandino				
			amilo Ortega		1		
		P/S P	ochocuape				
			elim Shible				
			omitila Lugo				
			ilario Sanchez enedicto Valverde		j l		
			de Julio			:	
			abriel Cardenal				
			orge Dimitrov				
			an José Oriental			_	
			artires de Julio	,		MINSA	040-0-1
			ueva Libia	16	15	PCI/Funds on hand	Good 10, Out of order5
			anta María de los Angeles riel Darce			inhabitant	
	Į.		squipulas				
	i		esa España			•	
	1		n Isidro de la Cruz Verde				
			os Ladinos	1			
			mar Torrijos			-	
	1		2 de Enero	1			
			alomon Moreno				
		P/S Je	igunes osé Dolores Estrada			=	
	1		amilo Chamorro	1 1	ĺ	•	
			ertha Diaz				
			aspan Sur			į	•
			lia Miguel Gutlerrez				
			swaldo Manzanares			•	
		P/S EI	Rodeo abana Grande			1	
			apana Grande mericas Uno			j	
			o. De Mayo				
	ŀ		illa Flor				
		1 770 41					
		P/S Vi	ila San Jacinto			1	
	MATEARE	P/S VI		2	2	Spain	Good1, Out of order1

SILAIS	Municiplo	Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
	SAN FRANCISCO LIBRE	C/S Francisco libre	1	1 1	Acción Médica Cristiana	Good
MANAGUA	(EDANGIEGO	(Francisco Matamores)	1			
MANAGUA	(FRANCISCO MATAMOROS)	P/S Las Lomas P/S San Roque				
	MATAMOROS	P/S San Roque P/S Larel Galán		<u> </u>		
		P/S El Mayro	1	1 1		
		P/S San Blas		1		
		P/S San Ramón		l i		
	SAN RAFAEL DEL SUR	C/S Ingenio Julio Buitrago	749- 1 137-0	2		
	BAN IVAI ALE DEE OUR	C/S San Rafael del Sur	2	1 1	Cementera	
		O/O Dan Raider Cer Cui	00 3. 8 . 143	lil	Fund of Barceló	Good 1, Out of order 1
		P/S Masachapa		lil	Japan	Good
	TICUANTEPE	C/S Héroes y Martires de Ticua.	330000	2	Inhabitant	Good1, Out of order1
	HODARIEFE	P/S La Borgoña	5 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	1	Instantifalls	Good I, Out of order i
	TIPITAPA	C/S Yolanda Mayorga	+	1	Japan	Good
	HEILAFA	i Cra folatica mayorga	' '	2	Local Community	Good
	}	P/S Carlos Fonseca San Benito			Local Community	3000
	ł	P/S Las Mesas de Acicaya				
		P/S Ciudadela				
		P/S Noel Morales				
		P/S Playwood				
		P/S Col. Agricola				
		P/S Los Laureles	ļ			
		P/S A.C. Sandino Edwin Osorio	4			
		P/S Las Maderas				
	1	P/S Ruben Ullos Yuri Ordeñez	1			
	i	P/S Mauricio Abdalah Zambrano		1		
		P/S Las Canoas				
	,	P/S Oreontes Centeno	1	ļ (
		P/S Las Banderas		[[
		P/S Las Lajas		[[
		P/S Brazil		ļl		
	VILLA CARLOS	C/S Villa Carlos Fonseca		2	Plan Internacional	Good
		P/S Nandayosy				
		P/S El Valle	at uaftific			
	FONSECA	P/S Nandayosy		1		
		P/S El Apante	İ			
		P/S Monte Fresco		1		
		P/S Samaria	2			
		P/S El Calmito	j			
]	P/S Los Cedros				
		P/S El Valle				
	CRUCERO	C/S Nuestra Señora de las Vict.	3	3	DANIDA	Out of order3
	CIUDAD SANDINO	C/S Cluded Sandino	1	1	Japan	Out of order
				3	CEPS	Good
	!	P/S Zona#7				
		P/S Zona#9	2	4 [CEPS	Good2, Out of order2
		P/S Nueva Vida	1 .	l i		
Subtotal			59	60		
	MASATEPE	C/S Benicio Gutiérrez	1	1	Visión Mundial	Good
IASAYA				1	Japan	Good
		P/S La Colonia	1 1		•	
		P/S San José de Monte Redon.	1			
		P/S El Arenal	i			
		P/S Cruz Verde	i			
	MASAYA	C/S Alejandro Davila Bolaños	 	1	Japan	Good
		P/S Las Flores		'	Japan	3000
	(MONIMBO)	C/S Monimbó	10.2 . 22.8 . 3 3 3 3 3 3.	1	lanen	Good
	(morningo)	O.O MOININGO	1 .		Japan PSMI	Good
			1	2	PMSS	Good
		P/S Pacaulta	1 .		rm35	5000
		P/S Pacayita P/S Francisco Real				
		P/S Prancisco Real				
		P/S Aaron Luckier P/S Dirlomito	!			
		P/S Diriomito P/S Pacayal	!			
	NANDASMO	C/S José Napoleón G.	- - -	1	Bon Manager	0
	HAMPAGMA			'	Banco Mundial	Good
		P/S Vista Alegre	1 1			
	NINDIRI	P/S Plo XII C/S Enrique Cisnes	1 1	 	Desti	
	MINDIKI	O/O Enrique Cishes	1 1	! !	PSMI	Out of order
		B10 0 F	1	1 1	MINSA	Out of order
	1	P/S San Francisco	1 1 1	j 1		
		P/S Buena Vista	1 1			
		P/S Oscar Danilo Rosales	1		ì	
		P/S Pedro Arauz Palacios	1 1	ļ į		
	we will be a second	P/S Rubén Dario				
	NIQUINOHOMO	C/S Augusto Cesar Sandino		1	Japan	Good
	SAN JUAN DE ORIENTE	C/S Pedro P. Gutiérrez(Oriente)	1.			
	TISMA	C/S Tism#		1	PSMI	Good
	1	P/S Las Cortezas	1	: I		
		P/S Santa Cruz	1			
	LA CONCEPCION	C/S La Concepción	(1.01 m)	2	Comunidad Europea	Out of order
Subtotal	LA CONCEPCION			2	Comunidad Europea	Out of order

SILAIS	Municipio	Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
	CIUDAD DARIO	C/S Rubén Dario		2	FSS	Out of order
ATAGALPA		P/S Duice Nombre de Jesús	1 1	, ,	Japan	Good
	1	P/S Lianos de Tamalapa	1 1	ł		}
		P/S Las Celabazas	i	!		
		P/S El Cacao	l i	1 1		
		P/S Casas Viejas	1 1			
		P/S El Prado	1	3		
		P/S Maunica		1 1	FSS	Out of order
	l.	P/S Darlo 1	1	1	FSS	Out of order
	ESQUIPULAS	C/S Esquipulas		1	Japan	Good
	ł.		ļ	1 1	Ejército Norteamericano	Good
	1	P/S El Rodeo		1	FSS	Good
		P/S El Portón		1 1	FSS	Good
		P/S Cumaika		1	FSS	Good
	MATAGALPA	C/S Policifnico Guevara Nárvaez	1	2	FSS	Out of order
	1	010 51 0	1	1 1	Japan	Good Good
		C/S El Progreso		1 1	FSS	Good
		C/S Lacayo Farfan P/S Primero de Mayo	ļ		Japan FSS	Good
		P/S Juacapa Abajo	i		FSS	Out of order
		P/S Quebrada Honda		i	FSS	Good
		P/S Solingalpa	1		FSS	Good
		P/S El Matasanos		1 1	Hospital Holy Cross	Out of order
	1	P/S Paicila	1	1 1	FSS	Good
		P/S La Corneta	1 1	ł		-
	1	P/S Guanuca		1 1	FSS	Good
		P/S Las Baquitas	1			Ī
	MATIGUAS	C/S Matiguas		2	Japan	
		P/S Pancasan Matigues		1 1	FSS(Unión Europea)	
	1	P/S La Patriota	1	1 3	FSS(Union Europea)	}
	,	P/S Liquia		1 1	FSS(Unión Europea)	
		P/S El Jobobo		1	FSS(Union Europea)	
	MUY MUY	C/S Muy Muy		2	PROSALUD	Good
				1 1	Japan	Good
		C/S Emiliano Pérez	 	1 1	FSS OPS	Out of order Out of order
	PAIWAS	C/S Emiliano Pérez	1		Japan	Good
					CARE	Good
	ļ	P/S Juan C. Flores (ubu norte)			CARE	Good
	RANCHO GRANDE	C/S Rancho Grande		1	CARE	Good
	10.110110 0101102	5.5 112.151.5 212.152		lil	PROSALUD	Good
		P/S Kuskawas		1	Japan	Good
	RIO BLANCO	C/S Denis Gutlérrez	1	1	Japan	Out of order
	J	}	ļ] 1]	CARE	Good
		P/S Mulukuku	ļ	1]	PROSALUD	Out of order
	SAN DIONISIO	C/S San Dionisio		1	Japan	Good
			1	1	FSS	Good
		P/S Susuli		1	FSS	Good
	SAN ISIDRO	C/S Manuel Orozco	1	1 1	Japan	Out of order
		n/n /		1 1	Iglesia Evangélica	Good
		P/S Las Mangas	1	1 1 1	FSS	Good
		P/S La Planta P/S Santa Rosa	1	1 1	FSS FSS	Good
	SAN RAMON	C/S Lucrecla Lindo	+	1	Japan	Out of order
	SAN KAMON	C/S EDGLACIA FINDO	1 '		Japan FSS	Good
	į.	P/S El Horno	1		FSS	Good
	1	P/S Samulali	1	i i 1	FSS	Good
	j	P/S Yasica Sur	J	i i	FSS	Good
	SEBACO	C/S Sebaco	1	1 1	FSS	Out of order
			1 1		Japan	Good
]	P/S Chaguilllo	1 1		• • •	,
	1	P/S La China	1 1			
		P/S Molino Sur	1	1	FSS	Good
		P/S Las Posas	1 1			
		P/S Sebana Verde	1			
		P/S La Virgen		1	FSS	Good
	TERRÀBONA	C/S Francisco Bultrago	[1	Japan	Good
		P/S Montaña Grande		1	FSS	Good
	TUMA - LA DALIA	C/S Pierre Cross Jean	1	1 1	OPS	Out of order
		B10 4 - =	ļ	1 1	Japan	Good
		P/S La Tronca		1 1	Japan	Good
		P/S El Tuma	1 1			
	WASLALA	C/S Fidel Ventura	i l	2	Japan	Good 1, Out of orde
			[2	PROSALUD	Good
			1	1	FSS	Good
				1	CARE	Good
Subtotal			21	70		

SILAIS	Municipio	Health Facility	Requested Quantity	Current Quantity	Source of Revenue	Equipment Condition
·- ·- ·- ·	CIUDAD ANTIGUA	C/S Leonidas García	1	1	Japan	Good
NUEVA	DIPILTO	C/S Ramón Sevilla		1		
SEGOVIA		P/S Diplito Viejo		1		
	EL JICARO	C/S Jicaro		1 2	Japan UNOPS/PNUD	Good Good
		P/S Siapali	1 1	'	UNOPS/PNUD	G000
		P/S Susucayan	l i			
		P/S Mayuca	1			
		P/S El Zapote	1 .	1		Good
	Tax ana	P/S Guanacastillo	1 1			
	JALAPA	C/S Pastor Jimenez P/S El Limon	1	2	FSS	Good
		P/S La Mia	i		ļ	
	•	P/S Teotecacinte		1	FSS	Good1, Out of order1
	MACUELIZO	C/S Vicente Godoy		1	PROSERBI	Good
		P/S Julio Cesar Martinez	2.5 p 1 244, 13	_		
	MOSONTE	C/S Héroes y Martires Nuev. Seg.	İ	1	Japan	Good
		P/S Yaraje		1 1	FSS, UNOPS/PNUD &	Good2, Out of order1
		P/S San Antonio			PROSERBI	Gudaz, Out of vider i
	MURRA	C/S Edwin Barahona(Murra)	1	1	FSS.	Out of order
		<u></u>	<u></u> 1	1 _	UNOPS/PNUD	Out of order
	OCOTAL	C/S José Dolores Estrada		1	FS\$	Good
		P/S Luis Castillo		ļ	l	
		P/S Nora Astorga P/S Joaquin Rivera	1			
		P/S Pueblos Unidos				
	QUILALI	C/S Bello Amanecer	1	1	Japan	Good
	1			2	FSS	Good 1, Out of order 1
		P/S San Bartolo	1	1	FS\$	Good
	PAN SERVICES	P/S Palo Grande	1			
	SAN FERNANDO	C/S Enoc Ortiz	1	1 1	Japan .	Good
	\	P/S Ramón Raudales	{		FSS, UNOPS/PNUD &	Good
		P/S German Pomares Ordoñez		l i	PROSERBI	5000
	SANTA MARIA	C/S Luis Felipe Moncada		1	FFS	Good
	WIWILI	C/S Jorge Navarro		1	Japan	Good
	HOSPITAL		7	1	FFS	Good
0.1.			21	30	Japan	Good
Subtotal	BONANZA	C/S Estepan Jaens Serrano	- 21	1	lann.	0
RAAN	BONANZA	C/S Estepan Jaens Serrand		2	Japan Companeros deta Salud	Good Good
1000	\ \	P/S Nueva Esperanza	\$50.00 4 60.000	•	Compane of the Cale	3000
	PUERTO CABEZAS	C/S Ernesto Hodgson W.		19	Companeros dela Salud	Good
		P/S Santa Marta	1	1	Companeros dela Salud	Good
		P/S Clinica Prinzapolka		1	Companeros dela Salud	Good
	ROSITA	C/S Rosario Pravia	1	3	Companeros de la Salud	Good2, Out of order1
		P/S Sahsa P/S Alimakamba		1 2	Companeros de la Salud Japan	Good Good
	SIUNA	C/S Carlos Centeno		3	Japan	Good
				1	Companeros de la Salud	Good5, Out of order1
	\ \		\	5	Proyecto de Fortalecimiento	
		P/S Santa Rita	1			
		P/S Guayabo	1 1	l		
	1	P/S Siquielka P/S Quebradas	1 1			
	WASPAN	C/S Oswaldo Padilla	1	4	APS	Good2, Out of order2
		P/S Tronquera	"	1	Accion Medica Cristiana	Good
		P/S San Jerónimo	1	1	Accion Medica Cristiana	Good
		P/S San Carlos	1	1 1	Cruz Roja Americana	Good
	}	P/S Living Kreek	1	1 1	Cruz Roja Americana	Good
	1	P/S Kisalaya P/S Saupuka	1	1 1	Cruz Roja Americana Cruz Roja Americana	Good Good
	1	P/S Andrés Río Coco	[]	1	Accion Medica Cristiana	Good
		P/S Ralti_		1	Accion Medica Cristiana	Good
	HOSPITAL			10	Save the Children	Good
				5	Companeros dela Salud	Good
Subtotal	Burers 55		7	66		
RAAS	BLUEFIELDS	C/S Juan Manuel Morales				
1000	1	P/S Pancasan P/S Jeffri Gordon	1 1			
	CORN ISLAND	C/S Ethel(Corn Island)				
	L	P/S Islite				
	KUKRA HILL	C/S Milton Rocha Espinoza		1	Japan	Good
		P/S Samuel Law Palma Africana	1 1			
		P/S Big Lagoon	1 1 1			
		P/S Neysl Rios				
	LA CRUZ DEL RIO	P/S La Fonseca C/S Ausperto Gutiérrez				
	GRANDE	P/S San Pedro del Norte	vijetajnujija	1		
	LAGUNA DE PERLAS	C/S Peria Maria Norori	1	1	Japan	Good
		P/S Pueblo Nuevo	111			
		C/S Miguel Angel Plazacia	1	1	Japan	Good
	TORTUGUERO				pabaii.	3000
	KARAWALA HOSPITAL	P/S Sandy Bay Ernesto Sequeira	1 2	1	Japan	Good

SILAIS	Municipio	Health Facility	Requested	Current Quantity	Source of Revenue	Equipment Condition
	EL CASTILLO	C/S Camilo Diaz	Quantity	2	FSS	Good1, Out of order1
RIO SAN JUAN	EL CASTILLO	P/S Buena Vista	1	•	, 55	Cover, carararar
THE CAN DO AN		P/S Esperanza	,	1 1	PFSS	Good
	j	P/S El Castillo		1 1	Japan	Good
		P/S Marion Zelays	1			
	MORRITO	C/S Morrito] 1	FSS	Good
	.	P/S Walter Acevedo	1 .	1	FSS	Good
		P/S Mario Medina Mayazang				
	SAN CARLOS	P/S San Bartolo C/S Adolfo Largaespada		2	PMSS	Good
	DAN SANLOS	C/S Las Azucenas		-	PMSS	Good
	1	C/S Los Chiles		1	PMSS	Good
				1	Japan	Good
		P/S Le Venada	1			
		P/S Laurel Galen	l.	1 1	PROSASER	Good
		P/S Morrillo P/S Nueva Jerusalen		1 1	PFSS PFSS	Good Good
	1	P/S Bello Amanecer	1	1 1	F\$\$	Good
	SAN MIGUELITO	C/S Norman Agullar	1	2	Banco Mundial	Good 1, Out of order 1
		P/S Miodonia Pérez	1	1 1	FSS	Good
		P/S Never Oporta	į	1	FSS	Good
		P/S El Tule	ļ	1	FSS	Good
	EL ALMENDRO	C/S El Almendro	1	1 1	FSS	Good
	1	D/D 1 - 4	1	1 1	FORSAP	Out of order
	!	P/S Laftor P/S Nisperal				
	İ	P/S Caracito	1	1 1	FSS	Good
	HOSPITAL	170 0010010	3	2	Proyecto Checo	Good2, Out of order2
			1	2	Japan	
Subtotal			13	27		
	ALTAGRACIA	C/S Altagracia	1	1	Japan	Good
RIVAS	1	C/S Merida	1 1	i		
	1	P/S Tichana	1			
		P/S San Marcos P/S Urbaite	;	1	Banco Mundial	Out of order
		P/S La Paima	l i		Sallos Manaiai	000000
		P/S Balgue	i i	1 1	Banco Mundial	Out of order
	BELEN	C/S Héroes y Márt, del 15 de Julio	1	1	Barroo Mundial	Good
		P/S Escalante	1 1	1		
		P/S Cantimptora	;]		
	BUENOS AIRES	P/S San Juan Viejo C/S Edwin Camorro(Buenos Aires)	00 Od00000	1	Cruz Roja Americana	Good
	BUENUS AIRES	P/S El Menco	John Hortester (Ca	1 1	Cruz Roja Americana	Good
	CARDENAS	C/S Luis Arroyo Ugarte	1	1	Japan	Good
		P/S Ernesto Guevara/Sapos	18 3 m	1 1	,	1
		P/S Colon	1			
	MOYOGALPA	C/S Héroes y Mártires de Ometepe	1	2	Banco Mundial	Good1, Out of order1
		P/S Jaime Marza/San José	1 !	1		
	BOTOOL	P/S Denis Escorcia/La flor	1 1	1	1-2-2	Good
	POTOSI	C/S Guadalupe P/S Yamil Rios Ugarte	1 1	'	Jepan	3000
	RIVAS	C/S Mannin Renner Reyes	 i 	1	Japan	Good
	,	P/S Veracruz	500 3 5 5 5		35pa	
		P/S Manuel Castillo	1	1 1	Banco Mundial	Good
		P/S Martin Santana/La Chocolata	11			
	SAN JORGE	C/S Danelia Muñoz	1	2	Banco Mundial	Good1, Out of order1
	SAN JUAN DEL SUR	C/S Gasper García Laviana	1 .	!	Banco Mundial	Good
	TOLA	P/S Héroes y Mértires del Naranjo C/S Camilo Ortega Saavedra	1	1	Banco Mundial Japan	Out of order Good
	, OLA	P/S Las Salinas		;	Banco Mundial	Good
		P/S Las Plias Coyol	1	'	-01100 1110110101	
		P/S Cafias de Garcia	1 1			
		P/S G, P, Ordofiez/San Ignacio	i. Cam			
	'	P/S Asentamiento Cuascote	1			
		P/S La Junta	1	_	<u>.</u>	1 .
		P/S Nancimi	1	1 1	Banco Mundial	Good
Subtotal Total			31	19		
		•	427	526		

		Phasel	Phasell		Phaseili		 	1
	item	Quantity	Quantity	Requested Quentity	Requested Qunatity in the Minutes	Quantity Plan in this Project	Priority	Remarks
EPI	equipment, Nebulizer							
1	MR vaccine	-	•	700,000	700,000	0	В	
2	MMR vaccine	700,000	182,000	182,000	182,000	0	С	
3	Pentavalente vaccine	500,000	150,000	150,000	150,000	0	C	
4	Auto-Disable Syringe	120,000	332,000	-	•		ļ .	
5	Disposable syringe			332,000	700,000		С	
6	Safety box	12,000	3,400	3,400	7,000	0	c	
7	Solar refrigerator	30	34	20	23			
8	Solar refrigerator(Large size)			3(-			
9	Vaccine carrier			2,000	2,000	2,000		
10	Icepack			B,000	-			Icepacks are included in vaccine
		43	65		65			CAITIET AS ACCESSORY
	Nebulizer icines	43		65	03	- 00		
\vdash		251 700	224 000	200,000	240 200	100 500		
77.07	Benzylpenicillin (Penicillin G)	251,700	224,000	200,000	349,200			
	Benzylpenicillin proceine	3,131,600	1,182,000			5-0-1-0-1-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-		
3	Benzylpenicillin benzathlne	407,400	208,000	215,000	364,600	ļ	 	
	Dicloxacillin	35,000		126,000	219,800			
5	Amoxicillin, Oral suspension	16,900	90,000	125,000	337,800	200,300	A	
6	Amoxicillin, Capsule	•	•	3,500,000	4,901,500	4,901,500	A	
7	Erythromycin	25,000	<u>-</u>	-	-		-	
8	Doxycycline	485,000	-	-	-	-	•	
9.	Chloremphenicol sodium succinate	20,200	31,000	15,000	34,200	18,800	8	
10	Gentamycin sulfate	102,700	79,000	72,000	177,300	163,400	В	
11	Sulfamethoxazole≁Trimethoprim, Syrub	558,100	500,000	420,000	640,900	640,900	В	
12	Sulfamethoxazole+Trimethoprim, Tablet	6,457,000	4,023,000	5,000,000	9,185,800	9,185,800	Α	
13	Nystatine	64,500	34,000	48,000	100,000	95,700	A	
14	Chloroquine phosphate	1,600,000	-	1,600,000	8,477,800	8,477,800	A	
15	Albendazole, Suspension	165,700	99,000	90,000	265,700	235,700	A	
16	Albendazole, Tablet 200mg	537,000	-	120,000	-	-	-	
17	Albendazole, Tablet 400mg	-	-		1,630,800	1,301,000	A	
18	Salbutamoi sulfate (Albuterol), Syrup	391,500	252,000	273,000	431,500	431,500	В	
19	Salbutamoi sulfate (Albuterol), Aerosol Inhalation	10,800	13,000	15,000	26,300	26,300	A	6 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
20	Ferrous sulfate	3,157,000	3,655,000	2,000,000	•	-	-	<u> </u>
	Phytomenadion		•	-	36,600	26,300	A	
22	Glucose(Dextrose Monohydorate)	-		-	90,500			
22	Ringer-Lactate Solution(Hartman)	189,100	71,000	65,000	109,400	75,200	В	
-	Isotonic sodium chloride solution	40,000	<u> </u>	45,000	7 1 1 5 mg 1 mg		understallinger (1550)	# Inglet(United Stell 1)
<u> </u>	Water for injection	1,000,000	•	1,215,000			 	
25	Oral rehydration salts (ORS)	3,174,500	1,677,000		2,580,000			
26	Oxytocin Coxytocin	3,174,300	1,017,000	1,020,000	40,300			
27	Ritedorine hydrochioride	4,700	5,000	4,500		30,100		·
-		 		4,500			 	
-	Tetracycline	300,000		<u> </u>				
29	Benzoic acid + salicyllic acid	320,000				-	<u> </u>	
30	Retinal (VitaminA) Paracetamol(acetoaminofen), Oral	17,100	19,000	 		_		
31	suspension	829,900	582,000	650,000	961,700	961,700	 	
	Paracetamol (acetoaminofen), Tablet	1,000,000		-	-		<u> </u>	
]	Dexamethasone sodium phosphate	34,400	59,000	25,000	64,400	47,000	Α	<u> </u>
34	Hydrocortisone sodium succinate	<u>-</u>	<u> </u>		45,700	25,600	A	
35	Prednisolone	<u> </u>	757,000	600,000	1,845,800	1,305,700	Α	