

Appendix 1 Member List of the Survey Team

1-1 Preparatory Survey (Outline Design 1) (January 15 – February 17, 2010)

Name		Organization
Mr. Yoshiyuki TAKAHASHI	Leader	Chief Representative, JICA Kenya Office
Ms. Sonoko TAKAHASHI	Project Coordinator	Assistant Director, Reproductive Health Division, Health Systems and Reproductive Health Group, Human Development Department, JICA
Mr. Shoichi TASHIRO	Project Manager / Architectural Planning	Yokogawa Architects & Engineers, Inc.
Mr. Koichi NAKAMURA	Architectural Design / Utility Planning	Yokogawa Architects & Engineers, Inc.
Mr. Sachie OKITA	Construction Planning / Quantity Survey	Yokogawa Architects & Engineers, Inc.
Mr. Makoto SUZUKI	Equipment Planning / Quantity Survey	Nihon Sekkei Medical Core, Inc.
Dr. Keiko KOBAYASHI	EPI Planning	KRI International Corporation
Mr. Sumio IKEDA	Utility Planning (voluntary)	Yokogawa Architects & Engineers, Inc.

1-2 Preparatory Survey (Outline Design 2) (July 5 – July 9, 2010)

Name		Organization
Mr. Masaaki KATO	Leader	Chief Representative, JICA Kenya Office
Ms. Sonoko TAKAHASHI	Project Coordinator	Assistant Director, Health Division 1, Health Group 1, Human Development Department, JICA
Mr. Shoichi TASHIRO	Project Manager / Architectural Planning	Yokogawa Architects & Engineers, Inc.
Mr. Sachie OKITA	Construction Planning / Quantity Survey	Yokogawa Architects & Engineers, Inc.

1-3 Outline Design Study Explanatory Mission (December 6 – December 10, 2010)

Name		Organization
Mr. Masaaki KATO	Leader	Chief Representative, JICA Kenya Office
Ms. Yasuyo KAWAMURA	Project Coordinator	Representative Health JICA Kenya Office
Mr. Shoichi TASHIRO	Project Manager / Architectural Planning	Yokogawa Architects & Engineers, Inc.
Mr. Makoto SUZUKI	Equipment Planning / Quantity Survey	Nihon Sekkei Medical Core, Inc.

Appendix 2 Survey Schedule

2-1 Preparatory Survey (Outline Design 1) (January 15 – February 17, 2010)

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 200	•	• • •	1 cordary 17, 2010)					
				cial Members	(a)	(b)	(c)	(d)	(e)	(f)
No.	Date	Day	Leader	Project Coordinator	PM/Architectural Planning	Architectural Design/Utility Planning	Construction Planning/Quantity Survey	Equipment Planning/Quantity Survey	EPI Planning	(Voluntary/Utility Planning)
			Mr. Yoshiyuki Takahashi	Ms. Sonoko Takahashi	Mr. Shoichi Tashiro	Mr. Koichi Nakamura	Mr. Sachie Okita	Mr. Makoto Suzuki	Ms. Keiko Kobayashi	Mr. Sumio Ikeda
S	urvey da	ays	12	16	36	36	27	36	29	27
1	1/14	Thr		/	Haneda 20:2	0 (Kansai, Doha)		Haneda 20:20	(Kansai, Doha)	
2	1/15	Fri			Meeting at JIC A Office, Courtesy call to Div. o	Nairobi 13:15 If Vaccine & Immunization (DVI) and discussions (Survey hedule, etc.)			irobi 13:15 ıpanying (a)	
3	1/16	Sat	/	/	Observation of similar proje	ects (hospitals and medical facilities)		Accompanying (a)	Accompanying (a)	
4	-	Sun				eeting, data filing	Haneda 20:20 (Kansai, Doha)		eting, data filing	Haneda 20:20 (Kansai, Doha)
H	.,		/		Discussion with DVI (Inception report,			1 00	tung, data iung	, , ,
5	1/18	Mon			Questionnaire, Survey schedule, etc.) Survey of Nairobi National Depot	Commissioning the survey on natural conditions / discussions, Discussions with local consultants	Nairobi 13:15 Survey of Nairobi National Depot	Accompanying (a)	Research at DVI	Nairobi 13:15 Survey of Nairobi National Depot
6	1/19	Tue			Team A: Nairobi 8:00 Meru 11:00 Meru site survey	Team B: Nairobi 7:45 Eldoret 8:30 Eldoret site survey	Team A: accompanying (a)	Team B: accompanying (b)	Team B: accompanying (b)	Team B: accompanying (b)
7	1/20	Wed			Meru site survey Meru 15:00 Nairobi 18:00	Eldoret site survey Eldoret 12:00 Kakamega 15:30 Kakamega site survey	Accompanying (a)	Accompanying (b)	Accompanying (b)	Accompanying (b)
8	1/21	Thr			Nairobi 8:00 Nakuru 11:00 Nakuru site survey	Kakamega site survey	Accompanying (a)	Accompanying (b)	Accompanying (b)	Accompanying (b)
9	1/22	Fri			Nakuru site survey Nakuru 15:00 Nairobi 18:00	Kakamega 7:30 Kisumu 9:00 Kisumu site survey Kisumu 18:20 Nairobi 19:05	Accompanying (a)	Accompanying (b)	Accompanying (b)	Accompanying (b)
10	1/23	Sat		Haneda 19:50 (Kansai, Dubai)	Survey of constrution situation / estimation (questionnaire delivery)	Market research relevant to utility planning / estimation (questionnaire delivery)	Survey of constrution situation / estimation (questionnaire delivery)	Survey of equipment suppliers (questionnaire delivery)	Observation of similar projects (hospitals and medical facilities)	Market research relevant to utility planning / estimation (questionnaire delivery)
11	1/24	Sun		Nairobi 14:55 Team Meeting			Team meeting, o	data filing		
12	1/25	Mon	Team A: Nairobi 8:00 Garissa 13:00 Garissa site survey	Team B: Nairobi 8:00 Meru 1100 Meru site survey	Team A: Nairobi 8:00 Garissa 13:00 Garissa site survey	Team B: Nairobi 8:00 Meru 11:00 Meru site survey	Team A: accompanying (a)	Team B: accompanying (b)	Team B: accompanying (b)	Team B: accompanying (b)
13	1/26	Tue	Garissa site survey	Meru site survey Meru 15:00 Nairobi 18:00	Garissa site survey	Meru site survey Meru 15:00 Nairobi 18:00	Accompanying (a)	Accompanying (b)	Accompanying (b)	Accompanying (b)
14	1/27	Wed		Nairobi 8:30 Mombasa 9:30 Mombasa site survey	Garissa site survey Garissa 13:00 Nairobi 18:00	Nairobi 8:30 Mombasa 9:30 Mombasa site survey	Accompanying (a)	Accompanying (b)	Accompanying (b)	Accompanying (b)
15	1/28	Thr		Mombasa site survey Mombasa 18:50 Nairobi 19:50	Discussion with DVI	Mombasa site survey Mombasa 18:50 Nairobi 19:50	Survey of constrution situations / estimation (questionnaire delivery)	Accompanying (b)	Accompanying (b)	Accompanying (b)
16	1/29	Fri	Courtesy call to the Ja	apanese Embassy, Ministry of Public H Site survey of Nairobi Nation	lealth & Sanitation, Discussions with DVI nal Depot	Nairobi 7:00 Nyeri 9:30 Nyeri site survey Nyeri 17:00 Nairobi 19:30	Survey of constrution situations / estimation (questionnaire delivery)	Accompanying (b)	Research at DVI, relevant to EPI situations Nairobi National Depot site survey	Accompanying (b)
17	-	Sat					r projects (hospitals and medical facilities)			
18	1/31	Sun				Tı	eam meeting, data filing			
19	2/1	Mon		Discussions with DVI on the dr	raft minutes	Survey of construction situations	Survey of constrution situations / estimation (questionnaire delivery)	Accompanying (a)	Research relevant to EPI at Nairobi National Depot	Survey of utility / infrastructure relevant institutions / corporations
20	2/2	Tue		Discussions with DVI on the dr	raft minutes	Survey of construction situations	Survey of constrution situations / estimation (questionnaire delivery)	Accompanying (a)	Research at DVI, relevant to EPI situations Nairobi National Depot site survey	Survey of utility / infrastructure relevant institutions / corporations
21	2/3	Wed		Discussions with DVI on the dr	raft minutes	Survey of construction situations	Survey of constrution situations / estimation (questionnaire delivery)	Accompanying (a)	Research at DVI, relevant to EPI situations Nairobi National Depot site survey	Market research relevant to utility planning / estimation
22	2/4	Thr	Disc	ussions with DVI on the draft minutes,	, Signing of the minutes	Commissioning topo & geo surveys / discussions, Discussions with local consultant	Research relevant to construction planning	Accompanying (a)	Research at DVI, relevant to EPI situations Nairobi National Depot site survey	Market research relevant to utility planning / estimation
23	2/5	Fri		Report to Japanese Emb	passy	Commissioning topo & geo surveys / discussions	Research relevant to construction planning	Accompanying (a)	Survey of cooperation from other donors	Market research relevant to utility planning / estimation
24		Sat		Nairobi 16:40 (Dubai, Kansai)	Survey of	construction situations, Research relevant to construction		Survey of equipment suppliers (questionnaire delivery)	Observation of similar projects (hospitals and medical facilities)	Market research relevant to utility planning
25	2/7	Sun		Haneda 19:55			Team meeting, o	data filing		
26	2/8	Mon	/	/	Existing DVI Office Topographic survey	Nairobi 8:00 Garissa 13:00 Garissa site survey	Existing DVI Office Topographic survey	Accompanying (b)	Accompanying (b)	Accompanying (b)
27	2/9	Tue			Survey of health & medical conditions (base line survey) Commissioning topo/geo surveys, signing on the work execution contract	Garissa site survey Garissa 13:00 Nairobi 18:00	Quantity survey (construction) (questionnaire retrieval)	Accompanying (b)	Accompanying (b)	Accompanying (b)
28	2/10	Wed			Survey of construction situations	Nairobi 7:00 Nakuru 10:00 Nakuru site survey Nakuru 16:00 Nairobi 19:00	Quantity survey (construction) (questionnaire retrieval)	Accompanying (b)	Survey relevant to EPI situations Nairobi 14:15 (Doha, Kansai)	Accompanying (b)
29	2/11	Thr			Discussions with DVI	Survey of construction situations Research relevant to construction planning	Quantity survey Nairobi 14:15 (Doha, Kansai)	Survey of equipment suppliers (questionnaire delivery)	Haneda 20:40	Quantity survey Nairobi 14:15 (Doha, Kansai)
30	2/12	Fri			Discussions with DVI	Research of construction laws/regulations	Haneda 20:40	Survey of equipment suppliers (questionnaire delivery)		Haneda 20:40
31	2/13	Sat			Discussions w/ local consulta	ints, Research relevant to construction		Market research relevant to equipment supply		
32	2/14	Sun			Team m	eeting, data filing				
33	2/15	Mon			Discussions with DVI	Survey of construction situations Research relevant to construction planning		Survey of equipment suppliers (questionnaire retrieval)		
34	2/16	Tue			Discussions with DVI, Sining technical	note, Report to Japanese Embassy, JICA Office		Survey of equipment suppliers (questionnaire retrieval)		
35		Wed	/		Discussions with local consultant nairobi 14:15 (Doha, Kansai)	Confirmation of commissioned geographical surveys Nairobi 14:15 (Doha, Kansai)		Suvery of equipment suppliers Nairobi 14:15 (Doha, Kansai)		
36	2/18	Thr			Haneda 20:40	Haneda 20:40		Haneda 20:40		

2-2 Preparatory Survey (Outline Design 2) (July 5 – July 9, 2010)

			Official	Members	Consul	tant Members
No.	Date	Day	Leader	Project Coordinator	PM / Architectural Planning	Construction Planning / Quantity Survey
			Mr. Masaaki Kato	Ms. Sonoko Takahashi	WII. SHOICHI	Mr. Sachie Okita
1	7/4	Sun		Na	rita 20:50 (Doha))
					Nairobi 13:15	
2	7/5	Mon	Survey of existing geotechnical inves Discussions with lo	ocal community council	for topographic sur and officers of the	
3	7/6	Tue	Survey of existing geotechnical inves PM Discussions with	•		vey and
4	7/7	Wed	Discussions with DVI	(minutes of discussions))	
5	7/8	Thr	Report to JICA Office Supplementary field su	s of discussions, technic arvey on market prices aphic survey and geotec		ns, Signing on the
6	7/9	Fri		Nairo	bi 14:15 (Dol	na)
7	7/10	Sat			Narita 19:30	

2-3 Outline Design Study Explanatory Mission (December 6 – December 10, 2010)

			Official I	Members	Consultan	t Members	
No.	Date	Day	Leader	Project Coordinator	PM / Architectural Planning	Equipment Planning / Quantity Survey	
			Mr. Masaaki Kato	Ms. Yasuyo Kawamura	Mr. Shoichi Tashiro	Mr. Makoto Suzuki	
1	12/5	Sun		Narita 20:50 (Doha)			
	10/6	M		Nairobi 12:30			
2	12/6	Mon	Discussions with JIC	A Kenya Office 16:00			
3	12/7	Tue	Discussions with DV	[
3	12//	Tuc	Supplementary field s	survey			
4	12/8	Wed	Discussions with DV	(minutes of discussions), making draft minute	es	
4	12/0	wea	Supplementary field s	survey			
5	12/0	Thr	Discussions with DV	[
3	12/9	1 nr	Signing on the minute	es of discussions 15:00			
6	12/10	Fri		Nair	obi 14:15 (Doha)		
7	12/11	Sat			Narita 19:05		

Appendix 3 List of Parties Concerned in the Recipient Country

Name Title, Position

Ministry of Public Health & Sanitation

Mr. Mark K. Bor, CBS
 Mr. Nimrod K. Waweru
 Deputy Secretary

• Mr. J.M. Gitonga Senior Public Health Officer

• Mr. N.N.Njagi Deputy Principal Accountant Controller

Department of Family Health

• Dr. Josephine Kibaru Head - Department of Family Health, M.Med. DDMS

Division of Vaccines & Immunization (DVI)

• Dr. Tatu Kamau Head of DVI

• Dr. Dominic Mutie Quality Assurance and Commodity Security

• Dr. Ali Arale National Logistician

Mr. Ernest Some Cold Chain Medical Engineer
 Ms. Carol Ng'ang'a Health Administrative Officer

Provincial Public Health & Sanitation-Eldoret

• Dr. Waqo D. E. Jersa Director

Mr. Benadette Musavakwa
 Ms. Wendy J. Tirop
 Mr. Stephen Gathu
 EPI Logistician
 Logistician Nurse
 DVI Senior Nurse

Mr. Anthony T. Murachin Medical Engineer & Technician
 Dr. Kariuki District Medical Officer of Health

• Dr. Murima Medical Superintendent

Ms. Mary Nyabuti Senior Nurse
 Mr. George W. Wanambisi DVI Nurse
 Ms. Dorothy Mwangangi Storekeeper
 Ms. Ahaka Consolata DVI Nurse-West
 Ms. Rose Kale DVI Nurse-East

• Dr. Lubamar M. B. Medical Officer of Health-West

Eldoret KEMSA Depot

• Mr. Abraham K. Komen Regional Liaison Officer

KPLC-Eldoret

Mr. Chrispine Obilo LinesmanMr. Mattews Okello Linesman

Ministry of Public Works-Eldoret

Mr. Simeon P.T. Nyakundi
 Mr. Sammy K.Sowek
 Mechanical Officer
 Electrical Engineer

Nakuru KEMSA Depot

Mr. Joseph Odhiambo Store KeeperMr. Ann N. Muthoga Storer

Provincial Public Health & Sanitation-Kakamega

Dr. Ahiwaukha Q.B. Director
 Ms. Assumpta Matekwa Nurse Officer
 Mr. Hudson Malongo Vaccine

• Mr. Anyango Philip Amoko Medical Engineer

Kakamega KEMSA Depot

• Mr. Geoffry Semere Warehouse Officer

Ministry of Public Works-Kakamega

• Arch. Ernest K. Murey District works Officer

Provincial Public Health & Sanitation-Kisumu

• Dr. Peter O. Okoth Provincial Disease Prevent Control Officer

Ms. Monica Ominchi Administration Officer

• Ms. Clementine Gwoswar Nurse

Mr. Jared Miyombe Medical EngineerMr. John W. Oaera Logistician

Kisumu KEMSA Depot

• Mr. Raphael Okun Warehouse (Nursing) Officer

Provincial Public Health & Sanitation-Embu

• Dr. Shi Kanga Provincial Disease Prevent Control Officer

District Public Health & Sanitation-Meru

• Dr. James Gitonga Medical Officer of Health

• Dr. Joe Kanja Medical Officer of Health: Pharmacist

• Mr. Leonard Miriti Health Administrative Officer

Ms. Hallan M. Nguku Public Health Nurse
 Mr. Jackson K. Mboroki Public Health Officer
 Mr. Robert Kinoti DHRIO Health Officer

• Mr. Erastus Muriuki Hospital Bio-Medical Depot Engineer

Provincial Public Health & Sanitation-Mombasa

• Dr. Anisa Omar Director

Mr. Joseph M. Kimwele
 Ms. Esha Yahya
 Mr. Christopher Ziroh
 Dr. Mohamed Hanif
 Health Officer DPT
 Clinical Officer
 Medical Engineer
 Pharmacist

Mombasa KEMSA Depot

Mr. Katana SarohMr. Moses OkalStore KeeperStore Clerk

Provincial Public Health & Sanitation-Nyeri

• Dr. Onesmus Maina Director

Ms.Florence N. Kungania EPI Logistician
 Mr. B-K. Ialofi Logistician

• Mr. Charles N. Chivri Logistician

Nyeri KEMSA Depot

• Mr. Paul Macharia Wise Officer

• Mr. Jack Ndambiri Hospital Bio-Medical Depot Engineer

Provincial Public Health & Sanitation-Garissa

• Dr. Osman Warfa Director

Dr. Njoroge Joseph Medical Superintendent
 Mr. Stephen Ngari Provincial Physical Planner
 Mr. John Njuguna Meteorological Superintendent

Garissa Medical Office

• Dr. Hussein Osman District Medical officer of Health

Ministry of Public Works

• Arch. C.J.M. Maweu Senior Principal Superintending Architect

• Arch. J.K. Kafuna Chief Superintending Architect

Kenya National Bureau of Statistics

Mr. Abdul Kadir A.Awes Senior Manager Population & Social Statistics
 Mr. Christopher N. Omollo Senior Manager Population & Social Statistics

Japanese Embassy in Kenya

Shigeo Iwatani Ambassador
 Takehiko Suzuki First Secretary
 Kaoru Yokotani Officer

JICA Kenya Office

Yoshiyuki Takahashi Chief Representative (Preparatory Survei 1)
 Masaaki Kato Chief Representative (Preparatory Survey 2)

• Kyosuke Kawazoe Deputy Chief Representative

Kazuko Kumon Programme Officer
 Kazumsa Sanui Programme Officer
 Elijah Kinyangi Programme Officer
 Yasuyo Kawamura Representative (Health)

Appendix 4 Minutes of Discussions

MINUTES OF DISCUSSIONS ON PREPARATORY SURVEY

ON THE PROJECT FOR THE REINFORCEMENT OF VACCINE STORAGE IN THE REPUBLIC OF KENYA

In response to a request from the Government of the Republic of Kenya (hereinafter referred to as "Kenya"), the Government of Japan decided to conduct a Preparatory Survey on the Project for the Reinforcement of Vaccine Storage in Kenya (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Kenya a Preparatory Survey Team (hereinafter referred to as "the Team"), which is headed by Mr. Yoshiyuki Takahashi, Chief Representative, JICA Kenya Office, and is scheduled to stay in the country from 15th January to 17th February, 2010.

The Team held discussions with the officials concerned from the Government of Kenya and conducted a field survey at the study area.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Preparatory Survey Report.

Nairobi, 4th February, 2010

Mr. Yoshiyuki Takahashi

Chief Representative

JICA Kenya Office

Leader

Preparatory Survey Team

Japan International Cooperation Agency

Mr. Mark K. Bor, CBS

Permanent Secretary

Ministry of Public Health and Sanitation

The Republic of Kenya

ATTACHMENT

1. Objective of the Project

The objective of the Project is to improve immunization coverage in the Republic of Kenya through the reinforcement of efficient distribution and storage of vaccines by constructing necessary facilities and supplying and installing necessary equipment in the Nairobi National Vaccine Depot and eight (8) Regional Vaccine Depots.

2. Project sites

The sites of the Project are as follows:

- 2-1. Nairobi National Vaccine Depot: The site of the Project is located on Off Mombasa Road, Embakasi, Nairobi as shown in Annex-1-1.
- 2-2. Nyeri Regional Vaccine Depot: The site of the Project is Kenya Medical Supplies Agency (hereinafter referred to as "KEMSA") Nyeri, located on Hospital Road, Nyeri, Central Province.
- 2-3. Nakuru Regional Vaccine Depot: The site of the Project is KEMSA Nakuru, located on Nakuru-Kabarak Road, Nakuru, Rift Valley Province.
- 2-4. Eldoret Regional Vaccine Depot: The site of the Project is KEMSA Eldoret, located on Oloo Street, Eldoret, Rift Valley Province.
- 2-5. Kisumu Regional Vaccine Depot: The site of the Project is KEMSA Kisumu, located on Busia Road, Kisumu, Nyanza Province.
- 2-6. Mombasa Regional Vaccine Depot: The site of the Project is KEMSA Mombasa, located on Nairobi Highway at Changamwe, Mombasa, Coast Province.
- 2-7. Meru Regional Vaccine Depot: The site of the Project is located in the east of the compound of the Meru District Hospital on Mortuary Road, Meru, Eastern Province as shown in Annex-1-2.
- 2-8. Kakamega Regional Vaccine Depot: The site of the Project is located in the south of the compound of the Kakamega Provincial General Hospital on Fitina Road, Kakamega, Western Province as shown in Annex-1-3.
- 2-9. Garissa Regional Vaccine Depot: The site of the Project is located in the north of the compound of the District Office of Ministry of Public Health and Sanitation on Sankuri Road, Garissa, North Eastern Province as shown in Annex-1-4.



3. Responsible and Implementing Agency

The Responsible Agency and the Implementing Agency is the Ministry of Public Health and Sanitation.

Organization chart of the above Agency and the ultimate user unit, Division of Vaccines and Immunization (hereinafter referred to as "DVI"), Department of Family Health, Ministry of Public Health and Sanitation, are shown in Annex-2-1 and Annex-2-2.

4. Items requested by the Government of Kenya

After discussions with the Team, the items described in Annex-3 (facilities) and Annex-4 (equipment) were finally requested by the Kenyan side. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

5. Japan's Grant Aid Scheme

- 5-1. The Kenyan side understands the Japan's Grant Aid Scheme explained by the Team, as described in Annex-5.
- 5-2. The Kenyan side will take the necessary measures, as described in Annex-6 and Annex-7, for smooth implementation of the Project, as a condition for the Japanese Grant Aid to be implemented.

6. Schedule of the Study

- 6-1. The consultants will proceed to further studies in Kenya until 17th February, 2010.
- 6-2. JICA will prepare the draft report in English and dispatch a mission in order to explain its contents in May, 2010.
- 6-3. In case that the contents of the report is accepted in principle by the Government of Kenya, JICA will complete the final report and send it to the Government of Kenya by August, 2010.

7. Other relevant issues

- 7-1. The Kenyan side agreed to allocate budget and secure necessary measures to procure necessary vaccines with its own budget.
- 7-2. The Kenyan side agreed to allocate budget (operational and maintenance costs) and manpower (health service providers, cold chain technicians and any other personnel) necessary for the proper and sustainable operation and maintenance of the facilities and the equipment to be provided under the Project.

The Team requested that the Kenyan side should secure budget to implement the undertakings by the Kenyan side which should be completed before the beginning of civil works of the Project under the fiscal year (FY) 2010 budget (from July 2010 to June 2011). The Kenyan side agreed to it.





- 7-3. The Kenyan side agreed to coordinate with other related agencies of the Government of Kenya, including KEMSA, regarding the issues handled by such agencies.
- 7-4. Cold room and freezers installed between 2006 and 2009 in Kakamega by the Kenyan side in the provisional facility will be transferred to the new warehouse of Kakamega Regional Vaccine Depot by the Kenyan side. The Kenyan side agreed to allocate sufficient budget for such transfer.
- 7-5. Cold room for Meru Regional Vaccine Depot and cold room for Garissa Regional Vaccine Depot being procured by the Kenyan side and scheduled to be delivered by June 2010 will be transferred to the new warehouses by the Kenyan side. The Kenyan side agreed to allocate sufficient budget for such transfers.
- 7-6. Both sides agreed to the following architectural designing criteria of facility:
 - (1) Quantity of vaccines, related materials and equipment
 - (2) The number of staff
 - (3) Function of the facilities
- 7-7. Both sides agreed to the following selection criteria of equipment:
 - (1) Calculation of number of cold room(s), freezer room(s) and freezers based on volumes of vaccines that would be necessary ten (10) years from now. The Kenyan side will purchase additional equipment in the future, as and when necessary.
 - (2) Available technical staff to operate and maintain the equipment
 - (3) Technical and financial feasibility of operation and maintenance of equipment including procurement of spare parts and consumables

Annex-1-1 Location Map for Nairobi

Annex-1-2 Location Map for Meru

Annex-1-3 Location Map for Kakamega

Annex-1-4 Location Map for Garissa

Annex-2-1 Organization Chart of the Ministry of Public Health and Sanitation

Annex-2-2 DVI Organogram

Annex-3 Facility List

Annex-4 Equipment List

Annex-5 Japan's Grant Aid

Annex-6 Major Undertakings to be Taken by Each Government

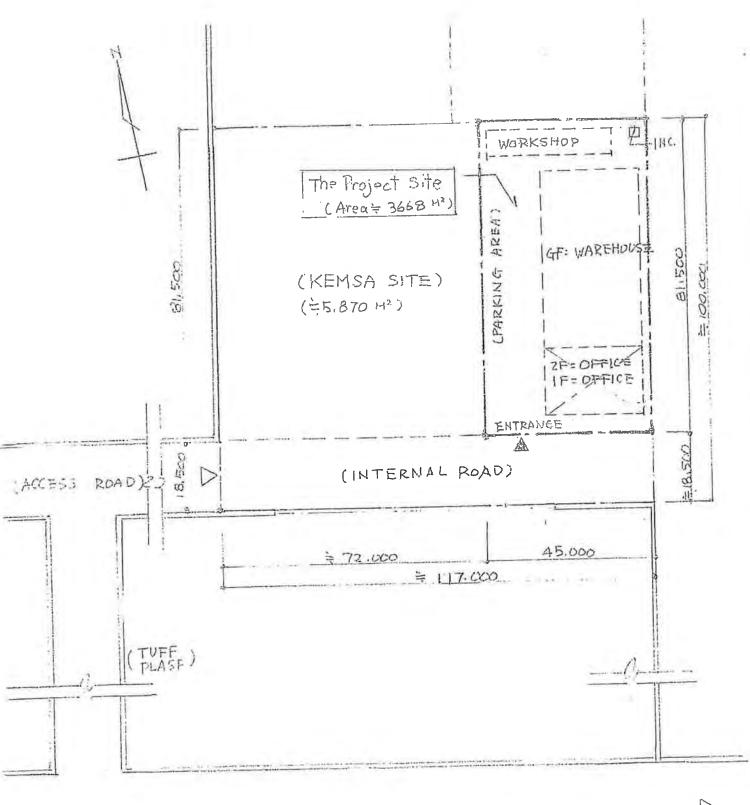
Annex-7 Major Undertakings to be Taken by the Kenyan Side in Each Site

Annex-8 Undertakings by the Ministry of Public Health and Sanitation





Location Map for Nairobi



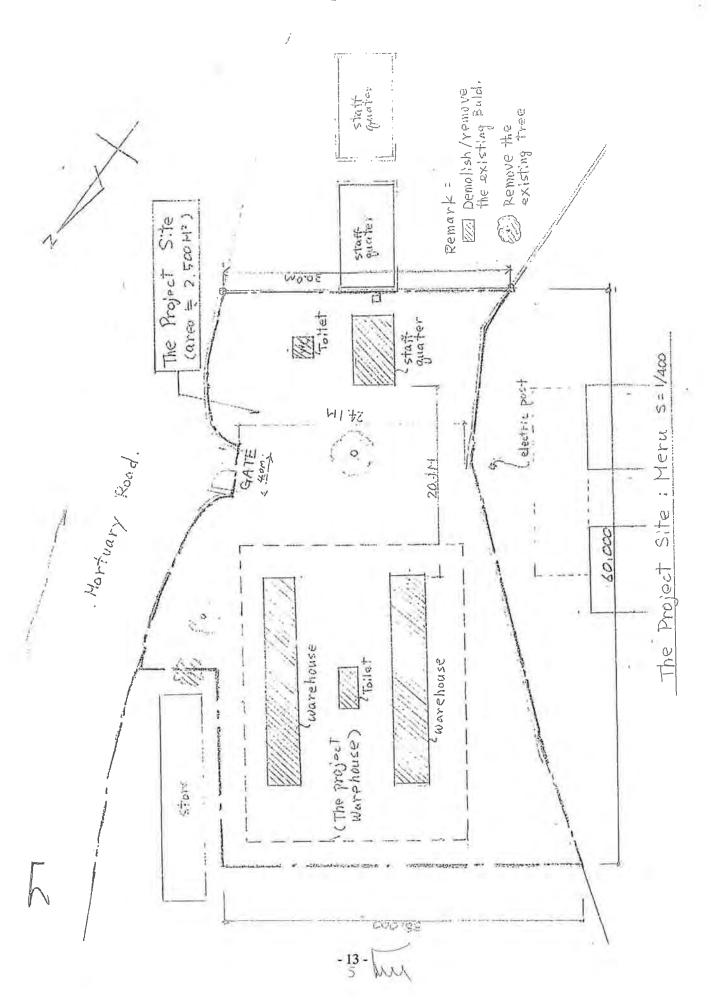
TO NAIROBI CENTER

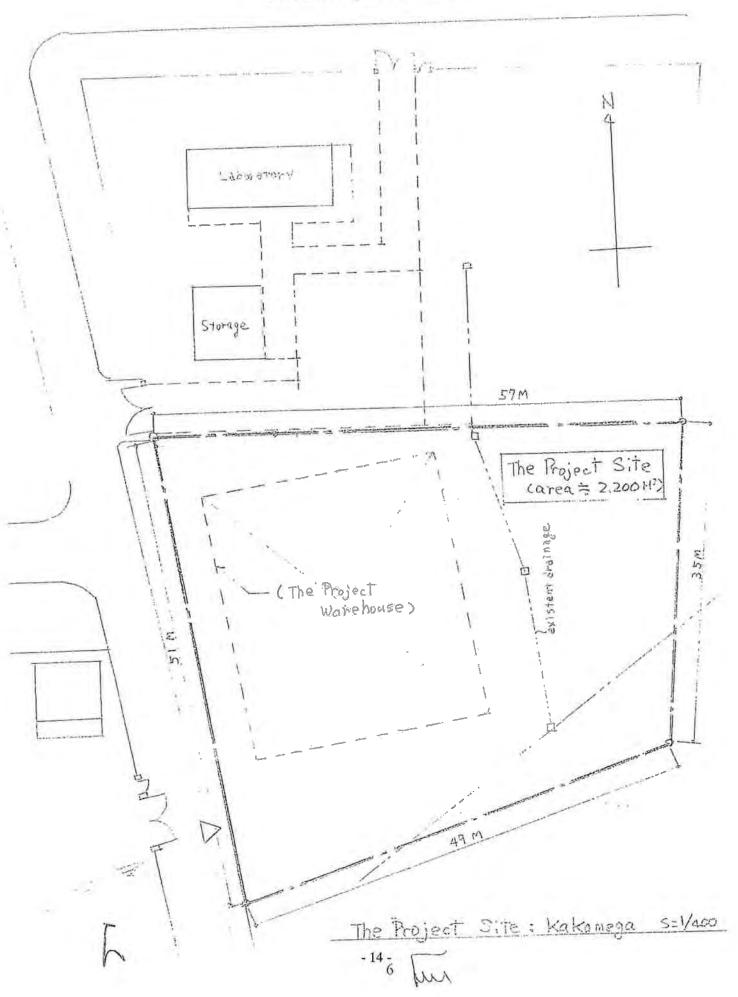
(MOMBASA ROAD)

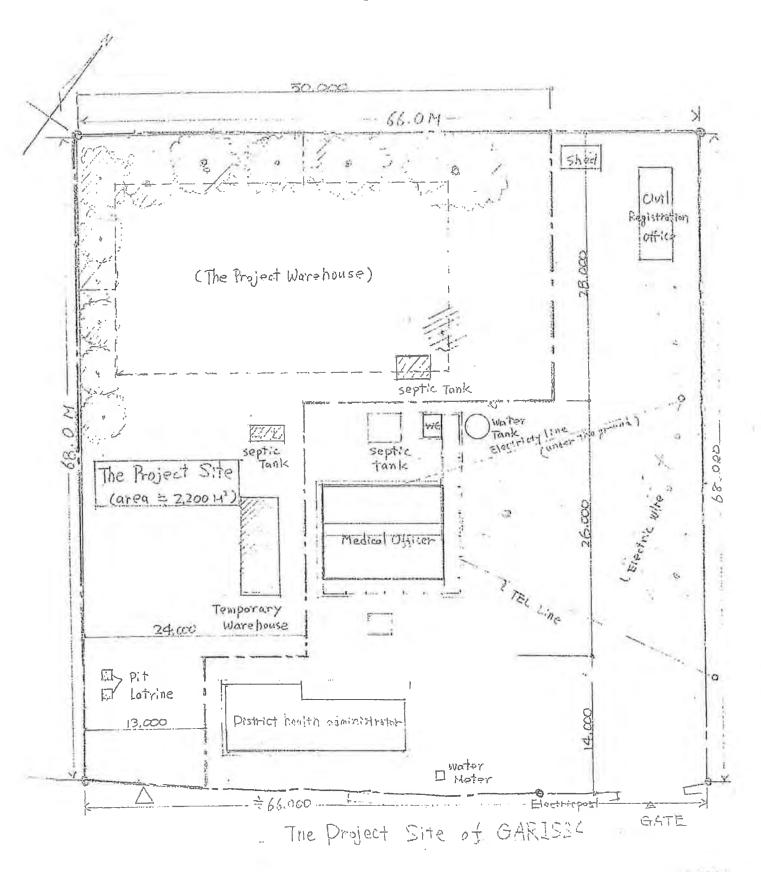
TO MOMBASA

The Project Site: Nairobi s= Vioco

-12-₄ Lu

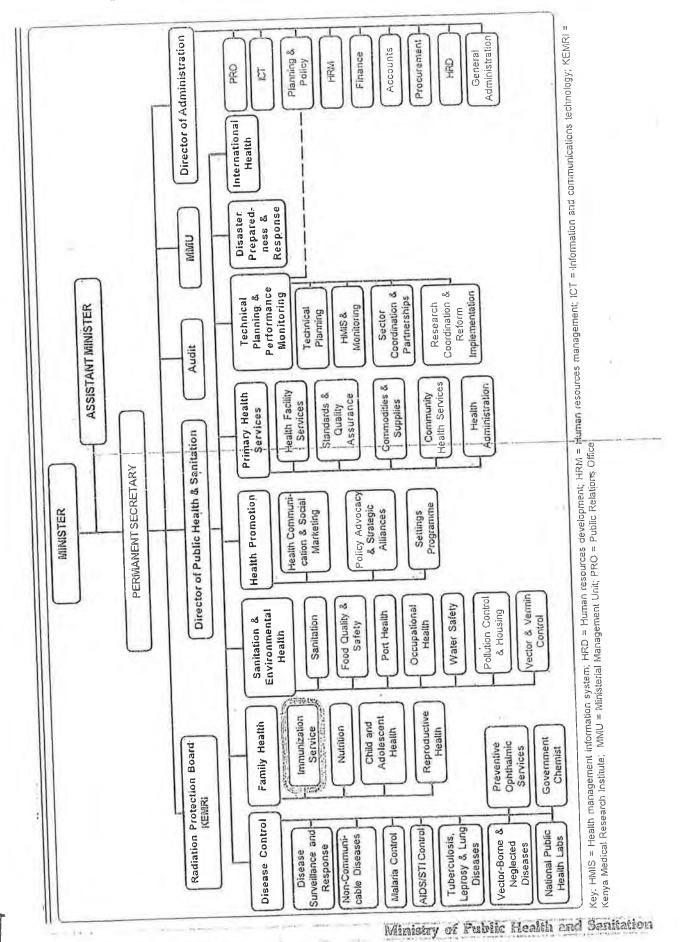






Remarks : Demolish/remove the existing Building
= Remove the existing tree

715hm



Facility List

Item No.	Name of Facility
(1) Na	irobi National Vaccine Depot
1	Coordination offices for the Division of Vaccines and Immunization
2	Warehouse for the Nairobi National Vaccine Depot
3	Workshop
4	Incinerator
5	Generator
(2) Me	eru Regional Vaccine Depot
1	Warehouse for the Regional Vaccine Depot
2	Generator
(3) Ka	akamega Regional Vaccine Depot
1	Warehouse for the Regional Vaccine Depot
(4) G	arissa Regional Vaccine Depot
1	Warehouse for the Regional Vaccine Depot
2	Generator





Equipment List

tem No.	Name of Equipment	Priority
	bi National Vaccine Depot	
1	Cold room	A
2	Freezer room	A
3	Computerized fridge temperature monitoring system	В
4	Freezer	В
5	Forklift	A
6	Manual pallet lifter	A
7	Refrigeration equipment maintenance kit	В
	i Regional Vaccine Depot	
1	Freezer	A
2	Manual pallet lifter	В
3	Refrigeration equipment maintenance kit	В
(3) Nak	uru Regional Vaccine Depot	
	Cold room	A
2	Freezer	A
3	Manual pallet lifter	В
4	Refrigeration equipment maintenance kit	В
(4) Eldo	oret Regional Vaccine Depot	
1	Cold room	A
2	Freezer	A
3	Manual pallet lifter	В
4	Refrigeration equipment maintenance kit	В
(5) Kis	umu Regional Vaccine Depot	
1	Freezer	A
2	Manual pallet lifter	В
3	Refrigeration equipment maintenance kit	В
(6) Mo	mbasa Regional Vaccine Depot	
1	Cold room	A
2	Freezer	A
3	Manual pallet lifter	В
4	Refrigeration equipment maintenance kit	В
(7) Me	ru Regional Vaccine Depot	
1	Freezer	A
2	Manual pallet lifter	A
3	Refrigeration equipment maintenance kit	В
(8) Ka	kamega Regional Vaccine Depot	
1	Manual pallet lifter	A
2	Refrigeration equipment maintenance kit	В
(9) Ga	rissa Regional Vaccine Depot	
1	Freezer	В
2	Manual pallet lifter	A
3	Refrigeration equipment maintenance kit	В

Remarks: A – It is necessary

B – It is necessary but further study is required



JAPAN'S GRANT AID

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on this law and the decision of the GOJ, JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

The Japanese Grant Aid is supplied through following procedures:

- · Preparatory Survey
 - The Survey conducted by JICA
- · Appraisal & Approval
 - -Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- · Authority for Determining Implementation
 - -The Notes exchanged between the GOJ and a recipient country
- ·Grant Agreement (hereinafter referred to as "the G/A")
 - -Agreement concluded between JICA and a recipient country
- ·Implementation
 - -Implementation of the Project on the basis of the G/A

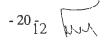
2. Preparatory Survey

(1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid





Scheme from a technical, financial, social and economic point of view.

- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of a outline design of the Project.
- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Outline Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of the jurisdiction of the organization of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as "the E/N") will be singed between the GOJ and the Government of the recipient country to make a pledge for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the Project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will





be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased. When JICA and the Government of the recipient country or its designated authority deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country. However, the prime contractors, namely, constructing and procurement firms, and the prime consulting firm are limited to "Japanese nationals".

(4) Necessity of "Verification"

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

(5) Major undertakings to be taken by the Government of the Recipient Country

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

(6) "Proper Use"

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

(7) "Export and Re-export"

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

(8) Banking Arrangements (B/A)

- a) The Government of the recipient country or its designated authority should open an account under the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to JICA under





an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

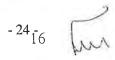
(10) Social and Environmental Considerations

A recipient country must carefully consider social and environmental impacts by the Project and must comply with the environmental regulations of the recipient country and JICA socioenvironmental guidelines.

4. Flow Chart of Japan's Grant Aid Procedures

ago		Flow & Works	Recipient	Japanese	HCA	Consultant	Contract	Others
Application		Request Screening of Project Evaluation of T/R Request Project Identification Survey*						
Project Formulation & Preparation	Preparatory Survey	Preliminary Survey* Office Work Reporting Selection & Contracting of Consultant by Proposal Explanation of Drain Final Report Final Report Final Report Final Report						
Appraisal & Approval		Appraisal of Project U Inter Ministerial Consultation Presentation of Draft Notes Approval by the Cabinet						
	Implementation	E/N and G/A (G/A: Grant Agreement) W Banking Arrangement Verification Verification Verification Detailed Design & Approval by Recipient Government Tendering & Evaluation						
	ation&	Procurement (Construction Construction Const						





Major Undertakings to be Taken by Each Government

).	Items	To be covered by Grant Aid	To be covered by Recipient Side
	To secure adequate land necessary for the implementation of the Project and to clear the sites		•
2	To construct the following facilities		
	1) The building	•	
	The gates and fences in and around the site		•
	3) The parking lot	•	
		•	
			•
3	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the sites		
	1) Electricity		
	a. The distributing power line to the site		•
	b. The drop wiring and internal wiring within the site	•	
	c. The main circuit breaker and transformer	•	
	in the distribution main to the site		•
	it is the site (receiving and elevated tanks)	•	
	Drainage a. The city drainage main (for storm sewer and others to the site)		•
	b. The drainage system (for toilet sewer, common waste, storm drainage and others) within the site	•	
	4) Gas Supply		•
	a. The city gas main to the site	•	
	b. The gas supply system within the site		
	Telephone System a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		•
	b. The MDF and the extension after the frame/panel	•	
	6) Furniture and Equipment		
4	a. General furniture		•
	h Project equipment	•	
	1 1 1 d eveterns clearance of the products at port	S	
	Marine (Air) transportation of the Products from Japan to the recipien country	it •	
	Tax exemption and custom clearance of the Products at the port of disembarkation		•





No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
	3) Internal transportation from the port of disembarkation to the project site	8)	
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the purchase of the products and the services be exempted		9
6	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay		
7	To ensure that the Facilities and the products be maintained and used properly and effectively for the implementation of the Project		•
8	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		•
9	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		
10	 Payment commission To give due environmental and social consideration in the implementation of the Project. 		•

(B/A: Banking Arrangement, A/P: Authorization to pay)

m



Major Undertakings to be Taken by Kenya Side in Each Site

1) Nairobi National Vaccine Depot

No.	Items	
1	To secure land	
2	To construct gates and fences in and around the site	
3	To provide electricity line to the site	
4	To provide water supply to the site	
5	To provide drainage pipe to the site	
6	To provide telephone line to the site	
7	To provide construction work area	

2) Nyeri Regional Vaccine Depot

No.	Items
1	To secure the space for cold room
2	To provide electricity, including electricity from the existing generator, for freezers

3) Nakuru Regional Vaccine Depot

No.	Items
1	To secure the space for cold room and freezers
2	To provide electricity, including electricity from the existing generator, for cold room and freezers
3	To provide drainage for cold room

4) Eldoret Regional Vaccine Depot

No.	Items
1	To secure the space for cold room and freezers
2	To provide electricity, including electricity from the existing generator, for cold room
3	and freezers To provide drainage for cold room

5) Kisumu Regional Vaccine Depot

No.	Items
1	To secure the space for cold room
2	To provide electricity, including electricity from the existing generator, for freezers

6) Mombasa Regional Vaccine Depot

No.	Items
1	To secure the space for cold room and freezers
2	To provide electricity, including electricity from the existing generator, to the site
3	To provide drainage for cold room





7) Meru Regional Vaccine Depot

No.	Items
1	To demolish/remove the existing buildings (2 warehouses, 1 staff quarter and 2 toilets)
2	To remove the existing trees
3	To level the site
4	To level the road in front of the gate
5	To move/transfer the existing cold room and freezers
6	To provide electricity to the site
7	To provide water supply to the site
8	To provide drainage pipe to the site
9	To provide telephone line to the site
10	To provide construction work area

8) Kakamega Regional Vaccine Depot

No.	Items
1	To level the site
2	To level the road in front of the gate
3	To move/transfer the existing cold room and freezers and generator
4	To provide electricity, including electricity from the existing generator, to the site
5	To provide water supply to the site
6	To provide drainage pipe to the site
7	To provide telephone line to the site
8	To provide construction work area

9) Garissa Regional Vaccine Depot

No.	Items
1	To demolish/remove the existing building (temporary warehouse and 2 pit latrines)
2	To demolish/remove the existing septic tanks
3	To remove the existing trees
4	To move/transfer the existing cold room and freezers
5	To provide electricity to the site
6	To provide water supply to the site
7	To provide drainage pipe to the site
8	To provide telephone line to the site
9	To provide construction work area



Two

Undertakings by the Ministry of Public Health and Sanitation

1) Nairobi National Vaccine Depot

No.	Items
	Provide the Project site
2	Ensure easy accessibility to the Project site

2) Nyeri Regional Vaccine Depot

No.	Items
1	Provide the space for DVI's freezers
2	Provide electricity (including generator line) for DVI's freezers

3) Nakuru Regional Vaccine Depot

No.	Items
1	Provide the space for DVI's cold room and freezers
2	Provide electricity (including generator line) for DVI's cold room and freezers

4) Eldoret Regional Vaccine Depot

No.	Items
1	Provide the space for DVI's cold room and freezers
2	Provide electricity (including generator line) for DVI's cold room and freezers

5) Kisumu Regional Vaccine Depot

N.Y.	[tems
No.	
1	Provide the space for DVI's freezers
2	Provide electricity (including generator line) for DVI's freezers

6) Mombasa Regional Vaccine Depot

No.	Items
1	Provide the space for DVI's cold room and freezers
2	Provide electricity (including generator line) for DVI's cold room and freezers





MINUTES OF DISCUSSIONS

ON PREPARATORY SURVEY (Outline Design No.2)

ON THE PROJECT FOR THE REINFORCEMENT OF VACCINE STORAGE IN THE REPUBLIC OF KENYA

From January to February, 2010, Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Preparatory Survey (Outline Design) Team on the Project for the Reinforcement of Vaccine Storage in Kenya (hereinafter referred to as "the Project") to the Republic of Kenya (hereinafter referred to as "Kenya"), and through discussion and field survey, JICA and the Kenyan side signed the Minutes of Discussions on 4th February, 2010.

Since the project site for the Nairobi National Vaccine Depot has been changed, JICA sent to Kenya a Preparatory Survey Team (Outline Design No.2) (hereinafter referred to as "the Team"), which is headed by Mr. Masaaki Kato, Chief Representative, JICA Kenya Office, and is scheduled to stay in the country from 5th July to 9th July 2010.

The Team held discussions with the officials concerned from the Government of Kenya and conducted a field survey in Nairobi.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Preparatory Survey Report.

Nairobi, 8th July, 2010

Mr. Masaaki Kato

Chief Representative

JICA Kenya Office

Leader

Preparatory Survey Team (Outline Design No. 2)

Japan International Cooperation Agency

Mr. Mark K. Bor, CBS

Permanent Secretary

Ministry of Public Health and Sanitation

The Republic of Kenya

ATTACHMENT

The following points are amended from the description referred in the Minutes of Discussion dated 4th February 2010.

1. Project sites for Nairobi National Vaccine Depot

The site of the Project for Nairobi National Vaccine Depot is located on Plot No. Zone 49 – Noonkopir T. Centre as shown in Annex-1-1 (Tentative map subject to topographic map by surveyor).

The letter from the Ministry of Public Health and Sanitation dated 14th June, 2010 with the attachment of the Letter of Allotment by the County Council of Olkejuado dated 14th June 2010 is shown in Annex-1-2.

2. Schedule of the Study

- 2-1. JICA will prepare the draft report in English and dispatch a mission in order to explain its contents in October, 2010.
- 2-2. In case that the contents of the report is accepted in principle by the Government of Kenya, JICA will complete the final report and send it to the Government of Kenya by around January, 2011.

3. Other Relevant Issues

3-1 Scope of the Project

The issues discussed between the Kenyan side and the Team are as follows:

(1) Coordination offices for the Division of Vaccines and Immunization

The Team expressed its concern about the necessity of including coordination offices of the Division of Vaccines and Immunization for the Nairobi National Vaccine Depot at the new project site which is located in Kitengela, outside Nairobi city. The Kenyan side explained that it is indispensable to locate the coordination offices in the same unit with the warehouse and workshop for the Nairobi National Vaccine Depot, in order to ensure efficient and effective operation for vaccine management. The Team understood the necessity of such offices; however, the size of the offices could be minimized, while the possibility for further expansion would be included in the design, so that the Kenyan side could expand the offices upwards in future. Both sides also confirmed that cost estimation will be further studied by the Japanese side, and that the inclusion of offices will be subject to approval of the Government of Japan.



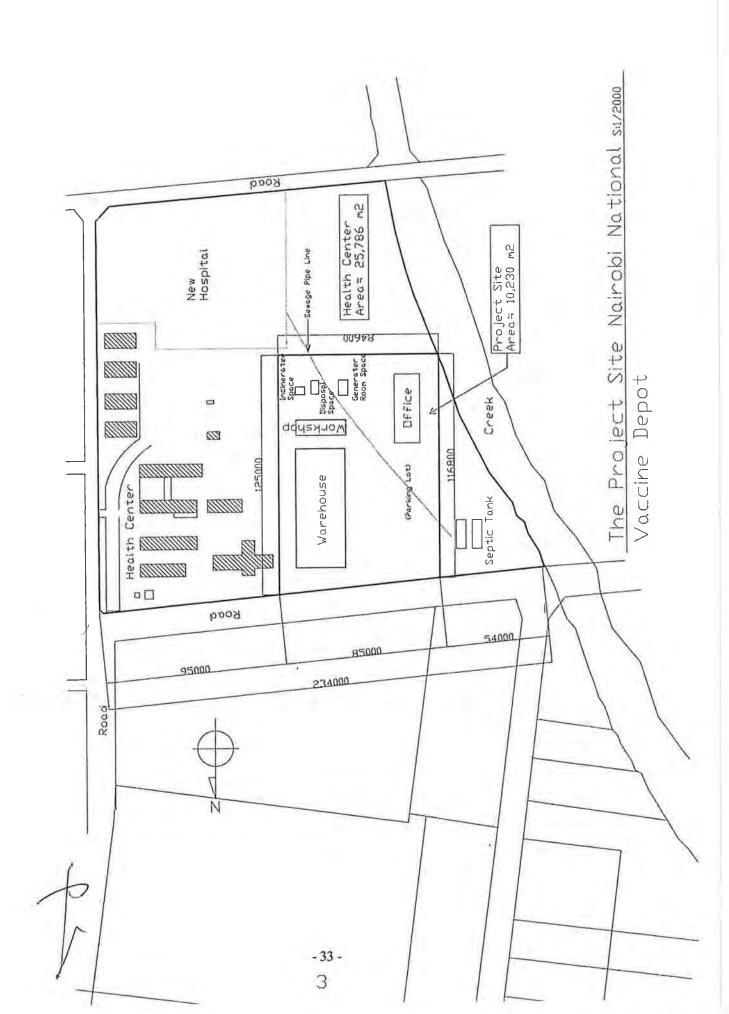
p

Annex-1-1 Location Map for Nairobi National Vaccine Depot

Annex-1-2 Letter from the Ministry of Public Health and Sanitation dated 14th June, 2010 with the attachment of the Letter of Allotment by the County Council of Olkejuado dated 14th June

fur

1



m



MINISTRY OF PUBLIC HEALTH AND SANITATION

Telegrams:"MINTHEALTH", Nairobi Telephone Nairobi 0202717077 Email: psph@beaith.go.ke When replying please quote

Ref. No. MPHS/FIN/12/A/4/27

AFYA HOUSE CATHEDRAL ROAD P O Box 30016 NAIROBI

Date: 14th June 2010

Masaaki KATO
Chief Representative
JICA Kenya Office
NAIROBL

Dear

RE: REQUEST REGARDING DOCUMENTS OF ALLOTMENT OF THE LAND IN KITENGELA FOR CONSTRUCTION OF VACCINES STORAGE FACILITY

Reference is made to your letter Ref.No. TC-22-075(EK) of 3rd June 2010 on above subject.

We are pleased to inform you that the County Council of Olkejuado has issued a Letter of Allotment to the Ministry of Health for Kitengela Health Centre land measuring 8.9 acres (copy attached). We are now in the process of acquiring the title deed for the same land from the Ministry of Lands. We expect the title deed to be ready very soon.

In view of the above we request that you proceed with dispatch of the second survey mission.

Thank you for your continued support.

AMB. BRUCE M. MADETE, MBS FOR: PERMANENT SECRETARY

my

1

004103 Our Ref. No. OCC/LND/16/NOONKOPIR/TC/LOA/VOL.I/12

COUNTY COUNCIL OF **OLKEJUADO**



P.O. Box 11. Telephone: 21212/3 KAJIADO

MINISTRY OF HEALTH	EMIRR ENGOLON POOT	,
KITENGELA(NOONKOPIR) HEALTI	H CENTRE	
	/~ /	

Date 14th June 2010.



Piot No. ZONE 49 (8.9 ACRES) - NOONKOPIR T. CENTRE:

This is to confirm allotment of the above-reffered plot to you by County Council of Olkejuado acceptance of which will be signified by initially paying:- "

Annual rent (revisable) a) Survey fees b) Local Authority Services Charge Plot identification fees d)

CONDITIONS

- This plot may be developed for HEALTH CENTRE use only. 1.
- The council may reposses (without compensation) any plot that remains undeveloped 2. 2 (two) year after allocation.
- Sale, sub-division or charge of the plot may only be done with the written consent 3. of the council.
- All building plans in respect of the plot shall be approved by the Council before execution. 4.
- This letter is only valid when signed by the Clerk to the Council. 5.

CLERK TO COUNCIL

Issued without erasures or alterations whatsoever.

MINUTES OF DISCUSSIONS ON PREPARATORY SURVEY

ON THE PROJECT FOR THE REINFORCEMENT OF VACCINE STORAGE IN THE REPUBLIC OF KENYA (EXPLANATION ON DRAFT REPORT)

Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Preparatory Survey (Outline Design) Team on the Project for the Reinforcement of Vaccine Storage in Kenya (hereinafter referred to as "the Project") to the Republic of Kenya (hereinafter referred to as "Kenya") from January to February, 2010, and also dispatched a Preparatory Survey Team (Outline Design No.2) on the Project to Kenya in July 2010, and through discussion, field survey, and technical examination of the survey results in Japan, JICA prepared a draft report of the survey.

In order to explain and to consult Kenya on the component of the draft report, JICA sent to Kenya a Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Masaaki Kato, Chief Representative, JICA Kenya Office, from 6th December to 10th December, 2010.

In the course of discussions, both parties confirmed the main items described on the attached sheets. The Team will proceed to further works and prepare the Preparatory Survey Report.

Nairobi, 9th December, 2010

Mr. Masaaki Kato Chief Representative JICA Kenya Office

Leader

Draft Report Explanation Team

Japan International Cooperation Agency

Mr. Francis K Musyimi, CBS

Secretary Administration

Ministry of Public Health and Sanitation

The Republic of Kenya

ATTACHMENT

1. Components of the Draft Report

The Government of Kenya agreed and accepted in principle the components of the draft report explained by the Team.

2. Japan's Grant Aid Scheme

The Kenyan side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Kenya as explained by the Team and described in Annex-5, Annex-6, Annex-7, and Annex-8 of the Minutes of Discussions signed by both parties on 4th February, 2010.

3. Schedule of the Study

IICA will complete the final report in accordance with the confirmed items and send it to the Government of Kenya by February 2011.

4. Confidentiality of the Project Design

Both sides confirmed that all information related to the Project design including detailed specifications of equipment and other technical information shall not be released to any outside parties before the signing of all the Contract(s) for the Project.

5. Other Relevant Issues

5-1 Confidentiality of the Project Cost Estimation

The Team explained the cost estimation of the Project as described in Annex-1. Both sides agreed that the Project Cost Estimation <u>SHALL NOT</u> be duplicated or released to any outside parties before the signing of all the Contract(s) for the Project. Both sides understand that the Project Cost Estimation described in Annex-1 is not final and is subject to change.

5-2 Project sites for National Vaccine Depot, Nairobi

Regarding the Project site for Nairobi National Vaccine Depot, the Certificate of Lease/Kitengela Government Land for the Proposed National Vaccines Depot dated 10th November, 2010 is shown in Annex 2.

The Kenyan side explained that no additional procedures are necessary for land acquisition for the Nairobi site as the lease certificate issued by the Commissioner of Lands is adequate.

137- 1

5-3 Scope of Works

The issues discussed between the Team and the Kenyan side are as follows:

- 5-3-1 Kenyan side requested cage separation area within the dry storage for quarantine goods (vaccines and syringes) at Nairobi Central Depot. The Team will consider this request.
- 5-3-2 Kenyan side requested the relocation of compressors on the east side of cold storage room at Nairobi Central Depot so as to reduce noise disturbance to the adjacent offices. The Team will consider this request.
- 5-3-3 Kenyan side requested the relocation of the conference room in the coordination office at Nairobi Central Depot because of difficulties in access for visitors. The team promised to relocate it closer to the main entrance of the building.
- 5-3-4 Kenyan side requested to remove the middle entrance door of the workshop at Nairobi central Depot as two doors would be sufficient for depot operations. The Team agreed to it.
- 5-3-5 Kenyan side requested for connecting canopies between the main buildings and external toilets for Garissa and Meru Regional Vaccine Depots respectively. The Team explained that it will need to consult further on the feasibility of this request.

Based on the above, both sides agreed, as the scope of works of the Project, the outline of the Project described in Annex-3, and equipment list described in Annex-4.

5-4 Operation and Maintenance Cost

The Kenyan side agreed to secure and allocate necessary budget and staff for the proper and sustainable operation and maintenance of the facilities and the equipment to be provided under the Project as described in Annex-5, and in accordance with the maintenance organization in Annex 6.

5-5 Obligation Works to be undertaken by the Kenyan side

The Kenyan side agreed to implement necessary infrastructure and construction works related to the Project by appropriate time including securing necessary budget allocation to meet the costs for such works as described in Annex-2. The Team explained that the timely completion of the obligation works by the Kenyan side based on the schedule in Annex-7 is crucial for Japanese side to implement its portion of works as scheduled, and in case that works by the Kenyan side would be behind the schedule for certain period of time, the Japanese side might have to re-schedule its implementation schedule accordingly.

Apart from the recurrent cost mentioned in section 5-4, the Team explained that counterpart budget shall be needed for implementation of the Project. The Team requested that the Kenyan side secures the counterpart budget under the fiscal years (FY) 2011/2012 and 2012/2013 budget. The Kenyan side agreed to secure the necessary budget.

The state

5-6 Tentative Schedule of the Project

The tentative schedule of the Project is described in Annex-8.

5-7 Utilization of Vaccine Storage Facilities

The Kenyan side explained that vaccines are acquired on regular basis and that all vaccines handled by the Government of Kenya are currently stored in the national and regional depot sites and will continue to expand the storage at the sites.

END

Annexes

Annex-1 The Certificate of Lease by the Kajiado District Land Registry dated 10th November, 2010

Annex-2 Project Cost Estimation

Annex-3 Outline of the Project

Annex-4 Equipment List

Annex-5 Operation and Maintenance Cost for Facilities and Equipment

Annex-6 Maintenance Organization

Annex-7 Undertakings by the Kenyan side

Annex-8 Tentative Schedule of the Project

The state of the s

1

REPUBLIC OF KENVIN

THE REGISTERED LAND ACT. (Chapter 300)

ertificate of Lease

THE No.

APPROXIMATE AREA

3.737 Ha

KITENGELA TOWNSHIP /462

Lesor Olkeniado county councia. Ren 72/=

99 YEARS FROM 1:9.2010

This is to certify that perm ben's ecretary to the treasure of ken's - as truster for ministry of public health

AND SARITATION P.O. BOX 30007 NAIROBI

Is (are) now registered as the proprietor(s) of the leasehold interest above referred to, subject to the agreement and other matters contained in the registered-lease, to the entries in the register-relating to the lease and to such of the overriding interests set out in section, 30 of the Registered Land Act as may for the time being subster and affect the land comprised in the lease.

GIVEN under my hand and the seal of the

KaJIADO District Registry

10th day of wovement 20,10

D. M. Magain

THE REGISTERED LAND ACT (Chapter 300)

Certificate of Lease

6

The state of

STONATURE OF PECISTRAL FURTHER PARTICULARS PART C-ENCUMBRANCES SECTION 1 PANTONE OF ENERGENING PASE STAY. The Market 100 mg/m SICHATURE OF KECKTYAR NATURE OF TITLE CLOSSESOLD At the date stated on the front hereof, the following entries appeared in the register relating to the End:--CONTINUES ON CONTINUES RESTRICTION: NO DISPOSITION BY THE PROPRIETOR SHALL BE REGISTERED tas prisers con ereiseri ce dublic elatre end 7. T. TSSECTO 7/4 WITHOUT THE WRITTEN CONSENT OF THE LESSOR (S. 48) THE PROPERTY OF THE PRESSORY OF WHITE TELES PERMANNY SECREMAY NOTES EN CHISTER OF WHISTER AND SHILE FLOW TERM: 99 YES FROM: 1,9,2010 PART A—PROPERTY SECTION (To be completed only when the applicant has paid Sh. 125) FÖR APPURTRYAMF ES SECTHE ARGISTENED LEAGU. Kill Wißer the Leages om a part of a parcel tile Parcel kumler refets totte kunner showron the flied plan PART B-PROPRIETORSHIP SECITON OLKEIUS DO GOUNTY COUNCIL PARTICULARS, OF LEASE אטריבוארעיס מאג אצבאפעע, מערבואיטאי, פבארונוסגא יוס באאל CERRITICATE OF LESSE RENTP2/-LESSOR: SA NITHA PITOR) EITERIGSTA TOWNSHIP REGISTRY MAP SHEET NO.3.757.... HECTARES REGISTRATION SECTION APPROXIMATE AREA PARCEL NUMBER Ø...ιι.ορ :α⊒νΕο 10.11.10 10.11,10 DATE EDITION: M SATAY NO. -41 -

VA



MINISTRY OF PUBLIC HEALTH AND SANITATION

Telegrams: "MINIHEALTH", Nairobi Telephone Nairobi 0202717077 Email: psph@health.go.ke When replying please quote AFYA HOUSE CATHEDRAL RQAD P O Box 30016 NAIROBI

Ref. MPHS/FIN/12/A/4/35

Date: 11th November, 2010

Mr. Masaaki KATO Chief Representative JICA Kenya Office NAIROBI.

Dear Masaaki

RE: CERTIFICATE OF LEASE/KITENGELA GOVERNMENT LAND FOR THE PROPOSED NATIONAL VACCINES DEPOT

Forwarded herewith please find a copy of the Certificate of Lease for Kitengela Government land for the proposed National Vaccines Depot. The Certificate of Lease is equivalent to a Title deed and is issued in accordance with the Registered Land Act, Cap 300 of the Laws of Kenya. The original Certificate is available for verification in our offices.

The Commissioner of Lands granted a ninety nine (99) year lease to the Permanent Secretary Treasury against which the certificate is issued. The Certificate of Lease shall be the only Prima Facie evidence for the land ownership by the Government during the period of which the lease remains valid.

Thank you for your continued support.

Yours

Mark K. Bor, CBS

PERMANENT SECRETARY

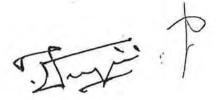
Encl.

The state of the s

This page is closed due to the confidentiality.

Annex-3 Outline of the Project

-	Facility	Structure/Areas	Component
	Warehouse	Structure: RC, partly S Floor Areas: 1,612.0m ²	Dry storage, Cold storage, Store, Office, Medical lab technologist room, Officer in charge of vaccine depot room, Dry storage manager room, Assistant room, Support staff room, Fire pump room, Security room, Kitchen, WC
Nairobi Na	Coordination Office	Structure: RC, partly S Floor Areas: 507.0m ²	Head of DVI room, Deputy head of DVI room, Secretary room, Office, Data room, Conference room, Server room, Support staff room, Store, Kitchen, WC
Nairobi National Vaccine Depot	Workshop	Structure: RC, partly S Floor Areas: 210.0m ²	Workshop, Chief medical engineer's room, Medical engineer's room
epot	Generator House	Structure: RC, partly S Floor Areas: 40.0m ²	Generator room, Switch panel room
	Disposal Space	(Shed)	Separate space for combustible, incombustible and medical wastes
	Incinerator Space	(Shed)	Space for installing the incinerator
	Floor Areas	2,369m ²	
R	Kakamega	Structure: RC, partly S Floor Areas: 675.0m ²	Warehouse, Officer in charge of vaccine depot room, Secretary / Waiting room, Support staff room, Store, WC
Regional Vaccine Depo	Meru	Structure: RC, partly S Floor Areas: 415.0m ²	Warehouse, Officer in charge of vaccine depot room, Secretary / Waiting room, Support staff room, Store, WC
Depot	Garissa	Structure: RC, partly S Floor Areas: 395.0m ²	Warehouse, Officer in charge of vaccine depot room, Secretary / Waiting room, Support staff room, Store, WC
	Floor Areas	1,485m²	
To	tal Floor Areas	3,814m²	



Annex-4 Equipment List

No	Name of Equipment	Total Quantity
1	Cold room with 3-rooms, 40m3 each	1
2	Cold room with 2-rooms, 40m3 each	2
3	Cold room, 1-room, 30m3 A	1
4	Cold room, 1-room, 30m3 B	3
5	Freezer room with 2-rooms, 20m3 each	1
6	Cold room/freezer room temperature monitoring system	1
7	Freezer	23
8	Forklift	i
9	Manual pallet lifter	10
10	Refrigeration gas charging station	9
11	Oxy-acetylene gas soldering set	9
12	Nitrogen gas cylinder set	9
13	Cabinet for Non-EPI vaccine	3
14	Automatic Voltage Regulator	23



T

Annex-5 Operation and Maintenance Cost for Facilities and Equipment

Annual Costs for Operation and Maintenance

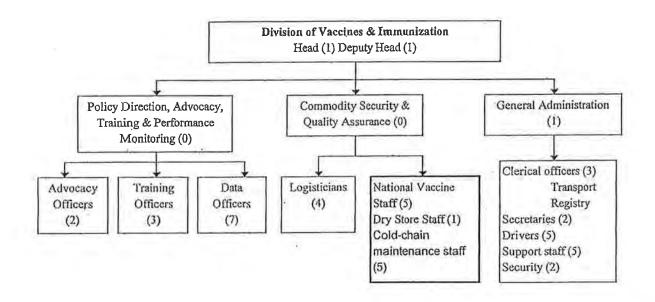
(in KShs)

	Zinnuai Cosi	S tot Operation	the limited between		(212 2220)
	Electricity	Water Supply/Sewage	Generator Energy	Equipment Repairs	Total
National Vacci	ne Depot (new)				
Nairobi	1,378,302	262,560	156,358	503,000	2,300,220
Regional Vacci	ine Depot (new)				
Kakamega	327,768	18,000	54,914	157,000	557,682
Meru	177,134	18,000	46,068	86,000	327,202
Garissa	148,081	18,000	52,843	86,000	304,924
Regional Vacci	ne Depot (existing)				
Nyeri	7,266	-	654	86,000	93,920
Mombasa	40,068	-	7,044	157,000	204,112
Kisumu	14,531	-	723	208,000	223,254
Eldoret	54,599		3,291	157,000	214,890
Nakuru	50,967		2,015	86,000	138,982
Total	2,198,716	316,560	323,910	1,526,000	4,365,186

Note: Figures for the regional vaccine depots (existing) indicate the expected annual cost increase due to the equipment supply in this project.

THE P

Annex-6 Maintenance Organization

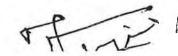


Organization of the Division of Vaccines & Immunization

The t

Annex-7 Undertakings by the Kenyan Side

Items		Nairobi	Kakamega	Meru	Garissa	Nyeri	Nakuru	Eldoret	Kisumu	Mombasa
1) To secure land	Completion	Jan. 2012	Jan. 2012	Feb. 2012	June. 2012	NA	NA	NA	NA	NA
2) To excavate and level the site	Completion	Jan. 2012	Jan. 2012	Feb. 2012	June. 2012	NA	NA	NA	NA	NA
3) To level the road in front of the gate	Completion	NA	NA	Feb. 2012	NA	NA	NA	NA	NA	NA
4) To demolish the existing buildings and trees, and remove them out of the site	Completion	NA	NA	Feb. 2012	June. 2012	NA	NA	NA	NA	NA
5) To acquire the permission for construction	Completion	Jan. 2012	Jan. 2012	Feb. 2012	June. 2012	NA	NA	NA	NA	NA
6) To connect infrastructure systems (electricity, water supply, drainage, telephone line, etc.) to the site	Completion	Jan. 2012	Jan. 2012	Feb. 2012	June, 2012	NA	NA	NA	NA	NA
7) To provide electricity, including electricity from the existing generator, for cold room and freezers, and to provide drainage for cold room	Completion	NA	NA	NA	NA	July. 2012	July, 2012	July. 2012 July. 2012 July. 2012 July. 2012	July. 2012	July. 2012
8) To provide construction work area	Completion	Jan. 2012	Jan. 2012	Feb. 2012	June, 2012	NA	NA	NA	NA	NA
9) To secure the issuance of the Banking Arrangement and	Consultant					Aug. 2011				
the Authorization to Fay, and payment of required banking commissions (0.2% of the contract price)	Contractor/ Supplier					Feb. 2012				
10) To procure general furniture for the buildings to be constructed in the project	Completion	Feb. 2013	Oct. 2012	Oct. 2012	Feb. 2013	NA	NA	NA	NA	NA
11) To construct fence around the site and a gate in it, and planting	Completion	Feb. 2013	Oct. 2012	Oct. 2012	Feb. 2013	NA	NA	NA	NA	NA
12) To destruct and reconstruct an incinerator in the premises of Kitengela Health Center	Completion	Feb. 2013	NA	NA	NA	NA	NA	NA	NA	NA
13) To secure the space for cold room and freezers	Completion	NA	NA	NA	NA	July. 2012	July. 2012	July. 2012	July. 2012	July, 2012
14) To move/transfer the existing cold rooms and freezers	Completion	Feb. 2013	NA	NA	NA	NA	NA	Oct. 2012	Oct. 2012	Oct. 2012

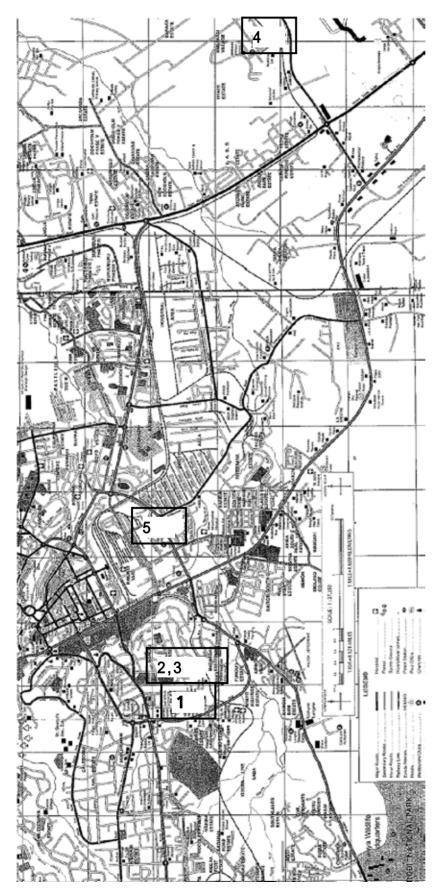


/						1						Months							1			
/	-	2	es	4		10	9	7	8	6	10	11	12	13	14	101	16	17	18	19	50	16
Project	E/N A	\$100 Michigan					15.20 a 150 a	Detailed design	П	Tender essistance	9 0	Supervisi	on of cons	Lruction w	orks, and e	quipment	n / Addn	Supervision of construction works, and equipment supply / installation (12 months)	12 month			3
	G/A					Marcatter		***********		BE-SEC	Sep. 1	为实际1000000000000000000000000000000000000		5. 数件总数分别全面处理		SECTION CONTROL		のなるというないのできないのできないというないのできないというない	CANADA SASA	- 体验表达多	1000000	
	0	Consultant agreement Verification of	nt agreen rification evey and	n of con	sultant a	tant agreement Verification of consultant agreement by JIG Suevey and discussions for detailed design	ltant agreement Verification of consultant agreement by JICA Suevey and discussions for detailed design													******************		
Detailed Design							Detailed design	iesign val of de	design documents by	nents by t	the Client		***************************************					erinasyrajina merina				
Tender Assistance		211	и,	L		- <u>1</u>	Approxi	f tender	Preparation of tender documents EM Approval of tender documents Tender	nts ation of te	nder / Co	ontract wi	th contrac	tors (for c	ments locuments inder Evaluation of tender / Contract with contractors (for construction	/ equipment)	रिव	de de la constante de la const		· · · · · · · · · · · · · · · · · · ·		
Supervision of Construction Works		Construction works of Nairobi National Vaccine Depot (12 Construction works of Maru Regional Vaccine Construction works of Kakamga Regional Vaccine Depot (8	ion work Const	s of Neil	works o	f Meru R	works of Noirobi National Vaccine Depot (12 Construction works of Maru Regional Vaccine Works of Kakemga Regional Vaccine Depot (8	spot (12 mc Veccine D Pepot (8 mc	months) SECTOR Depot (7 months) months) SECTOR CONTROLLIS	onths)	SACONERS SECRETOR SECRETOR	months) <u>Parchard And Perchastration Controls</u> Depot (7 months) <u>Estimated Controls</u> Months	PROPERTY.	Polytopics (2)	Antider State of the section of the	Partition of the control of the cont		Parcolator (Amontos) (Amon	Service Servic	THE STATE OF THE S	ensons desper	
Equipment Supply / Installation	The state of the s				THE STREET STREET, STR			***************************************	Equipmen	Equipment manufacturing	3 dimins		Transp	Transportation Installation and Men	ansportation Townersoning Installation and comissioning Meru/Kakamaga/ 5 Existing Depots	2 % S	(Alice)	Installation and comissioning Neirobi/Garissa				
Handover		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************	***************************************	*;*************************************		(1000-1100-110)					E"	Handover of Meru Depot	Handover of Meru Depot	Depor		landover (Handover of Nairobi Depot	Depot	4.4
												4										

Turis

Appendix 5 Other Relevant Data

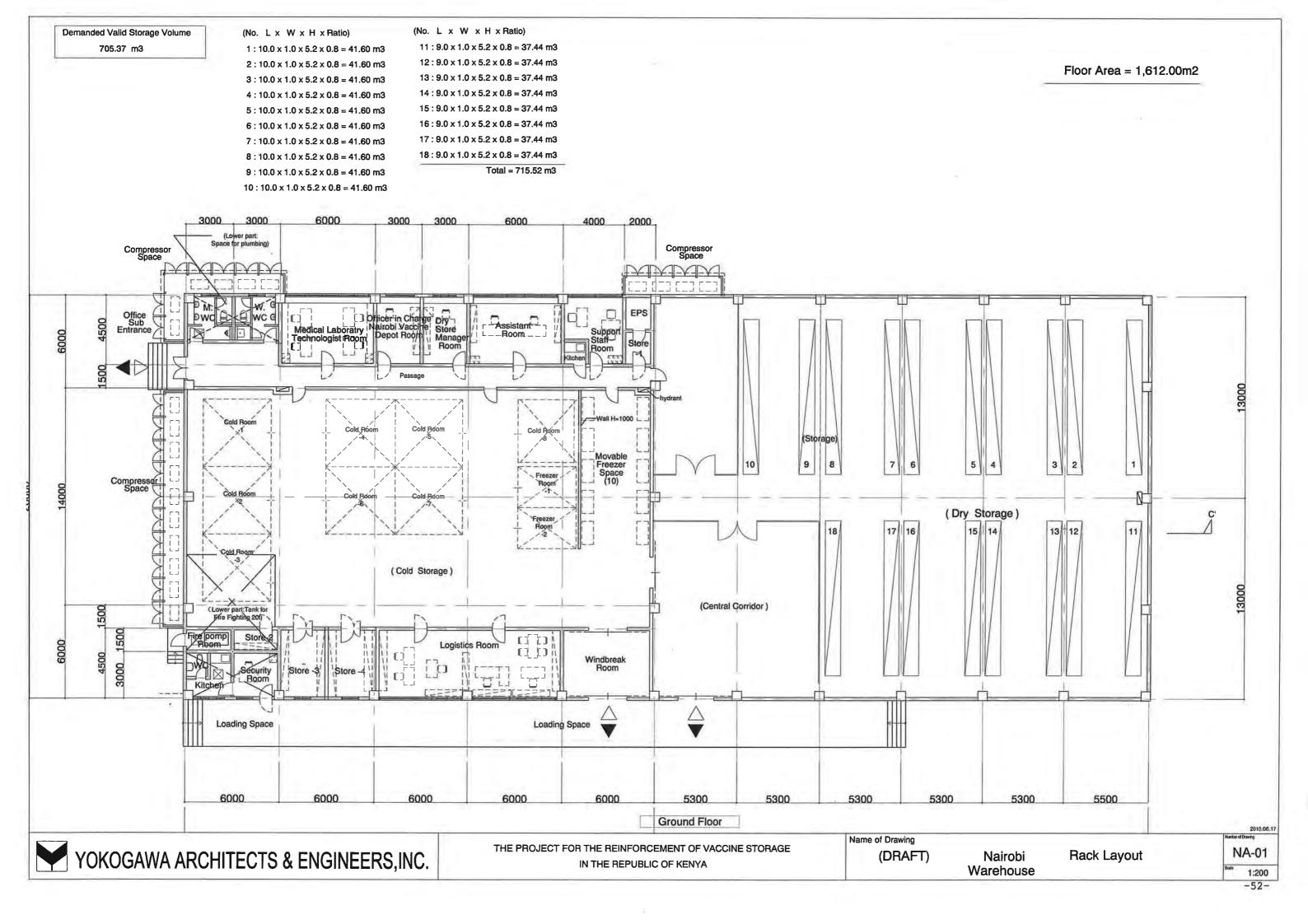
5-1 Location Map of Existing Facilities

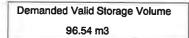




- 1: DVI Office
- 2: DVI Warehouse (freezer)
- 3: DVI Warehouse (cold rooms)
- **4:** Warehouses near the airport
- 5: KEMSA Warehouse

ltem Site	Nairobi	Kakamega	Meru	Garissa	Remarks
Dry Storage volume of 43 items: 2010	537.483				
Target population of Nairobi Depot (national): 2010	1,540,008				
Amount per-child (V1)	0.0003490	0.0003490	0.0003490	0.0003490	Calculated by Storage volume at Nairobi Depot/Target population (national): 2010
Target population of each site: 2020	2,101,174	287,912	134,722	117,180	Target population of Garissa= residents 98,288 + refugees 18,892 = 117,180
Annual dry storage volume: 2020 (V) =	733.34	100.49	47.02	40.90	
Amount per carry-in/out $/2 = (A)$	366.67	50.24	23.51	20.45	Storage volume when the stock are carried-in/out twice a year
Diluents storage volume: 2020 (Annual)	36.20	4.80	2.40	2.00	Annual storage volume
Diluent: each amount to be carried-in/out in 2020	18.10	1.20	09'0	0.50	Nairobi Depot: Storage volume when the stock are carried-in/out twice a year Regional Depots: Storage volume when the stock are carried-in/out 4 times a year
Droppers storage volume: 2020 (Annual)	18.20	2.40	1.20	1.20	Annual storage volume
Droppers: each amount to be carried-in/out in 2020	9.10	0.60	0:30	0:30	Nairobi Depot: Storage volume when the stock are carried-in/out twice a year Regional Depots: Storage volume when the stock are carried-in/out 4 times a year
Syringes & safety boxes storage volume: 2020 (V) = $(2.5)^{-1}$	1,354.80	185.20	09'98	75.40	Stored in the Dry Storage warehouse
Amount per carry-in/out $/4 = (B)$	338.70	46.30	21.65	18.85	Storage volume when the stock are carried-in/out 4 times a year
(A) + (B) = Total (2020)	705.37	96.54	45.16	39.30	
Design Dry Storage Capacity	715.52	98.40	47.20	40.20	Stored in the Dry Storage
Difference between target and design storage volume	10.15	1.86	2.04	06.0	Facility of Garissa Depot shall be designed in consideration of refugees.
Freezer rooms to be installed in the Project	2	0	0	0	
Cold rooms to be installed in the Project	8	0	0	0	
Coldrooms installed by DVI	0	1	1	1	
Total Coldrooms	8	1+ *1=2	1	1	* 1: One more coldroom will be installed by the Kenyan side in the future.
Freezers to be installed in the Project	0	0	2	1	
Freezers installed by DVI	7	9	1	2	Refugees shall be considered for Garissa Depot.
Total Freezers	7	9	3	3	
Additional installation intended in the future	3	2	1	1	Additional freezers wil be installed by the Kenyan side in the future.
Total Freezers in the future	10	8	4	4	For the purpose of calculating the required electric power capacity





Expression of Calculation of Valid Storage Volume

(No. L·x W x H x Ratio)

1:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

2:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

 $3:2.0 \times 2.0 \times 2.0 \times 0.8 = 6.40 \text{ m}$

4 : 2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

 $5:6.0\times0.5\times2.0\times0.7=4.20$ m3

 $6:6.0 \times 0.5 \times 2.0 \times 0.7 = 4.20 \text{ m}$

 $7:6.0 \times 0.5 \times 2.0 \times 0.7 = 4.20 \text{ m}$

8:6.0 x 0.5 x 2.0 x 0.7 = 4.20 m3

 $9:6.0 \times 0.5 \times 2.0 \times 0.7 = 4.20 \text{ m}$ $10:6.0 \times 0.5 \times 2.0 \times 0.7 = 4.20 \text{ m}$

11: $6.0 \times 0.5 \times 2.0 \times 0.7 = 4.20 \text{ m}$

12:6.0 x 0.5 x 2.0 x 0.7 = 4.20 m3

13:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

14:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

15:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3 16:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

17:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

 $18:7.0 \times 0.5 \times 2.0 \times 0.7 = 4.90 \text{ m}$

19:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

20:7.0 x 0.5 x 2.0 x 0.7 = 4.90 m3

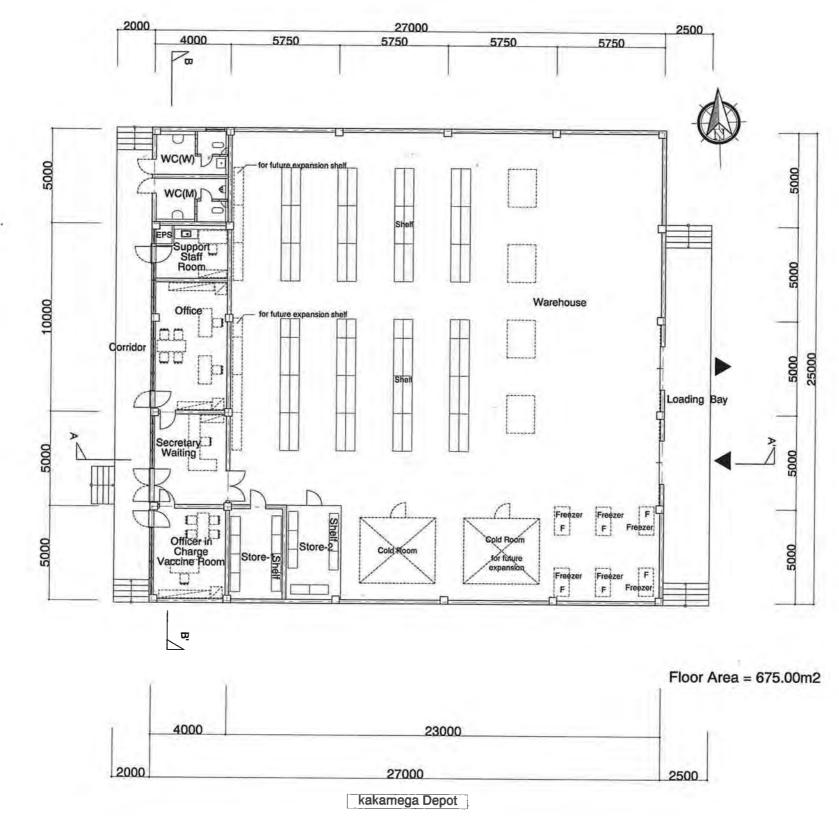
Total = 98.40 m3

Spare Space for Future

21:6.0 x 0.5 x 2.0 x 0.7 = 4.20 m3

22:7.0 x 0.5 x 2.0 x 0.7 = 4.70 m3

All Total = 107.30 m3





YOKOGAWA ARCHITECTS & ENGINEERS, INC.

THE PROJECT FOR THE REINFORCEMENT OF VACCINE STORAGE IN THE REPUBLIC OF KENYA

Name of Drawing

Kakamega Depot Plan

Rack Layout

RL-03 1:200

2010.06.17



Demanded Valid Storage Volume 45.16 m3

Expression of Calculation of Valid Storage Volume

(No. L x W x H x Ratio)

1:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

2:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

 $3:2.0\times2.0\times2.0\times0.8=6.40$ m3

 $4:10.0 \times 0.5 \times 2.0 \times 0.7 = 7.00 \text{ m}$

5:10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

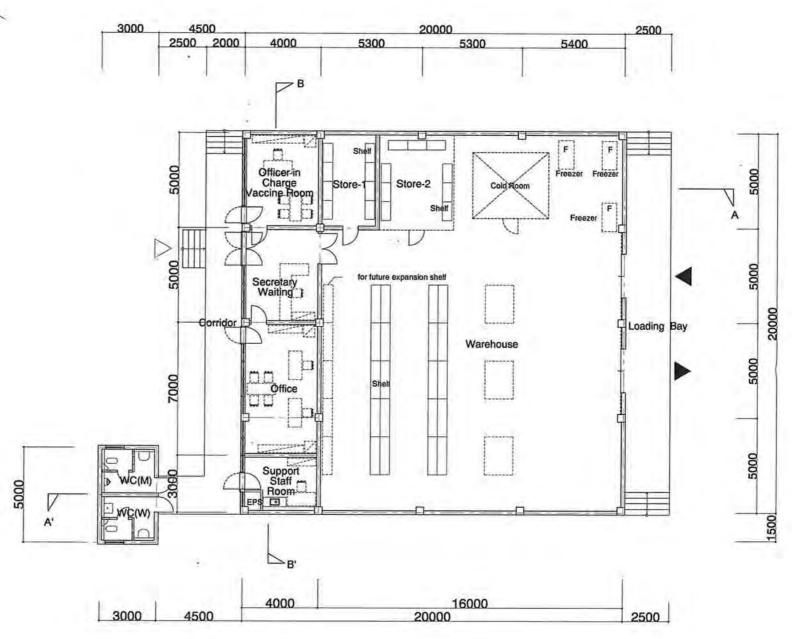
6: 10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

7:10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3 Total = 47.20 m3

Spare Space for Future

 $8:10.0\times0.5\times2.0\times0.7=7.00$ m3

All Total = 54.2 m3



Floor Area = 415.00m2

Meru Depot

2010,04,09



Demanded Valid Storage Volume 39.30 m3

Expression of Calculation of Valid Storage Volume

(No. L x W x H x Ratio)

1:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

2:2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

3: 2.0 x 2.0 x 2.0 x 0.8 = 6.40 m3

4:10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

5: 10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

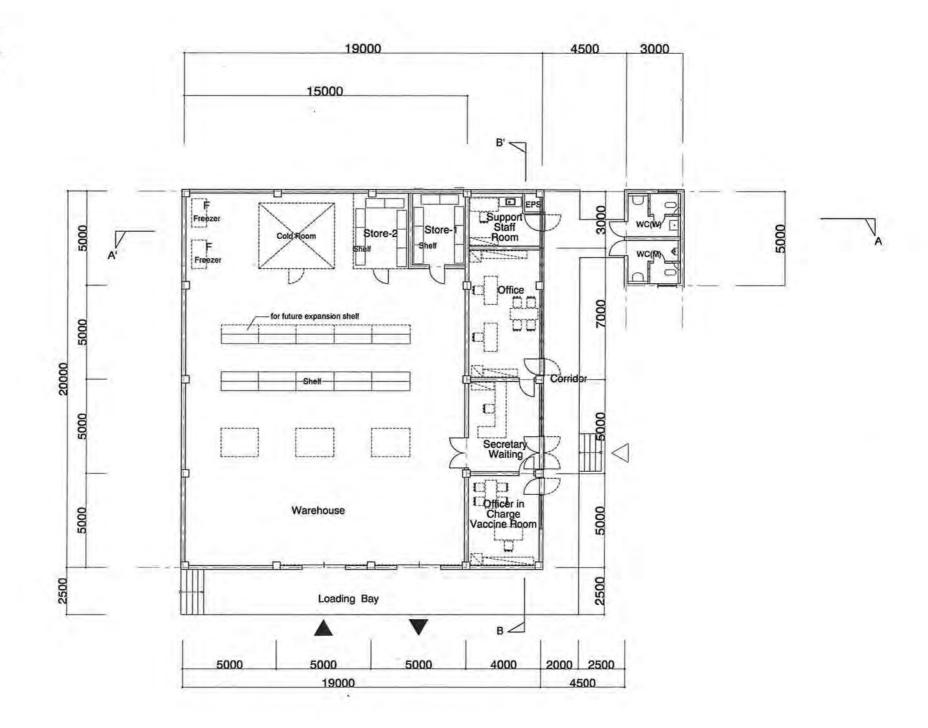
6: 10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

Total = 40.20 m3

Spare Space for Future

7:10.0 x 0.5 x 2.0 x 0.7 = 7.00 m3

All Total = 47.2 m3



Garissa Depot

Floor Area = 395.00m2



YOKOGAWA ARCHITECTS & ENGINEERS, INC.

THE PROJECT FOR THE REINFORCEMENT OF VACCINE STORAGE IN THE REPUBLIC OF KENYA

Name of Drawing

Garissa Depot Plan

Rack Layout **RL-05** 1:200

-55-

2010,06.1

Appendix 5-3

Topographic Map

