

Appendices

Appendix 1. Member List of the Study Team

(1) Members of Basic Design Study Team

Masaaki MATSUSHIMA Team Leader

Director First Project Management Division

Grant Aid Management Development

Japan International Cooperation Agency (JICA)

Minoru HOMMA Project Coordinator

First Project Management Division
Grant Aid Management Development

Japan International Cooperation Agency (JICA)

Toshihiko SUZUKI Chief Consultant/

Architectural Design, Construction and Maintenance Planner

Daiken Sekkei, Inc.

Yoshiyasu TAKASE^{* 1} Verification Engineer

Daiken Sekkei, Inc.

Minako SATO Education and Environmental Planner

Daiken Sekkei, Inc.

Junji NAKAYAMA Construction Condition Surveyor/ Procurement Planner/

Estimate Planner Daiken Sekkei, Inc.

Satoru OKADA^{* 2} Construction Condition Surveyor/ Construction Planner/

Construction Supervisor Daiken Sekkei, Inc.

Katsumi TAKATO^{* 2} Construction Condition Surveyor/ Construction Planner/

Construction Supervisor Daiken Sekkei, Inc.

Masami YONEZAWA Architect

Daiken Sekkei, Inc.

Ariyuki SUDA Site Surveyor

Daiken Sekkei, Inc.

Syuhei NOMURA Structural Engineer

Daiken Sekkei, Inc.

Toshimichi NAGANUMA Hydrogeologist

Daiken Sekkei, Inc.

Isao ISHIBASI Project Coordinator

Daiken Sekkei, Inc.

^{*1.} Verification Engineer: Yoshiyasu TAKASE did not join the site survey.

^{*2.} Construction Condition Surveyor, Construction Planner, Construction Supervisor: Satoru OKADA could not fulfill his duty due to personal reasons, Katsumi TAKATO has taken over OKADA's duty.

(2) Members of Second Field Study

Minoru HOMMA Project Coordinator

First Project Management Division Grant Aid Management Development

Japan International Cooperation Agency (JICA)

Osamu YAMADA Technical Advisor of Grant Aid Project

Japan International Cooperation Agency (JICA)

Toshihiko SUZUKI Chief Consultant/

Architectural Design Construction and Maintenance Planner

Daiken Sekkei, Inc.

(3) Members of Explanation on Draft Report

Koji OTA Team Leader

Deputy Resident Representative of Zambia Office Japan International Cooperation Agency (JICA)

Toshihiko SUZUKI Chief Consultant/

Architectural Design Construction and Maintenance Planner

Daiken Sekkei, Inc.

Junji NAKAYAMA Construction Condition Surveyor/ Procurement Planner/

Estimate Planner Daiken Sekkei, Inc.

Ariyuki SUDA Site Surveyor

Daiken Sekkei, Inc.

(4) Members of Explanation on Draft Final Report

Koji OTA Team Leader

Deputy Resident Representative of Zambia Office Japan International Cooperation Agency (JICA)

Toshihiko SUZUKI Chief Consultant/

Architectural Design Construction and Maintenance Planner

Daiken Sekkei, Inc.

Junji NAKAYAMA Construction Condition Surveyor/ Procurement Planner/

Estimate Planner Daiken Sekkei, Inc.

Tetsuo YASHIRO^{* 1} Architect

Daiken Sekkei, Inc.

^{* 1} Architect: Masami YONEZAWA could not fulfill his duty due to retirement, and Tetsuo YASHIRO has taken over YONEZAWA's duty.

Appendix 2. Study Schedule (1) First Site Survey

	Date	Mission Team Leader Project Coordinator	Chief Consultant/Architectural Design, Construction and Maintenance Planner	Education and environmental planner	Construction Condition Surveyor/Procurement Planner/Estimate Planner	Construction Condition Surveyor/Construction Planner/Construction Supervisor	Architect	Site Surveyor	Structural Engineer	Project Coordinator
1	May 26 Sun	Tokyo -> Ho	ongkong -> Johannesburg				Tokyo -> Hongkong -> Johannesburg			
2	27 Mon		nesburg -> Lusaka ese Embassy and JICA office				Johannesburg -> Lusaka			
3	28 Tue	-	Ministry of Education (MOE)				Consulted with MOE			
	29 Wed		sulted with MOE				Surveyed target sites and			
-	29 Wed		veyed target sites omparable facilities (on a grant-aid	hasia			prepared site plans			
5	30 Thu	•	h Ministry of Finance	basis)			Surveyed target sites			
6	31 Fri		MOE and reported to JICA				Consulted with MOE			
7	Jun 1 Sat 2 Sun		able facilities (existing schools) Team meeting			ng -> Johannesburg ng -> Johannesburg	Surveyed comparable facilities Team meeting		-> Hongkong -> Johani Johannesburg -> Lusaka	
				исл		aires on estimating for and interviewed with (trial				•
9	3 Mon		reported to Japanese Embassy and	JICA		n) contractors	Const	alted with MOE and pro-	epared for site survey	
10	4 Tue	υ	I minutes of meeting I site conditions and consulted with	MOE	Supplied questionnaires on estimating for and	interviewed with (trial construction) contractors	Surveyed site condition	tions and neighboring b	pasic schools	Coordination
11	5 Wed		Consulted with provincial and di Surveyed comp			or and interviewed with (trial construction)	Surveyed site condition	tions and neighboring b	pasic schools	Coordination
12	2 6 Thu		Surveyed comp		Grouped local contractors (for trial construction) for P/Q	Surveyed site condi-	ions and neighboring b	pasic schools	Coordination
13	7 Fri	Lusaka -> Johannesburg -> Hongkong	Consulted with Surveyed comp		On-site explanation	(for trial construction)	Surveyed site condi-	ions and neighboring b	pasic schools	Coordination
14		Arrived at Tokyo Hongkong -> Tokyo				Team meeting				
15			Cymrayrad mai abh anin a	- basis sebasla	Local contractors' of	Organized materials capability inspection:	Cymyryd eito condi	ions and naighboring h	ancio sebanto	Condination
16	5 10 Mon	/	Surveyed neighboring			I their sites capability inspection:	-	tions and neighboring b		Coordination
17			Surveyed neighboring	g basic schools	Inspected	I their sites		tions and neighboring b		Coordination
18	3 12 Wed	/	Surveyed comp	pounds		al construction)	Surveyed site condit	tions and neighboring b	pasic schools	Coordination
19	13 Thu		Surveyed comp	pounds	Inspected their d	capability inspection: lelivered buildings	Surveyed site condit	ions and neighboring b	pasic schools	Coordination
20	14 Fri		Surveyed comp	pounds		capability inspection: lelivered buildings	Obtai	ned land certificates		Coordination
22						Team meeting Organized materials				
23	17 Mon	/	Surveyed infrast Surveyed comp		Survey for equipment a	and material procurement	Obtained land co	ertificates and surveyed	l LWSC	Coordination
24	18 Tue	/	Visited other assista	nce agencies	Survey for equipment a	and material procurement	Obtai	ned land certificates		Coordination
25			Surveyed comp Visited other assista	nce agencies	Ridding and contract pegot	iation (for trial construction)		Lusaka -> Johannesbui	rg -> Hongkong	
			Surveyed comp			· ·				
20			Survey for project plannin Consulted with	•		inspection capability inspection		Hongkong ->	Токуо	
28	3 22 Sat		Constitute Will		Team meeting					
29 30		/	Consulted with	n MOF	Organized materials Signed contracts (f	or trial construction)				
31		/	Reported to JIC.			ractors' capability inspection				
32	26 Wed	/	Lusaka -> Johannesbur	g -> Hongkong		ractors' capability inspection				
33			Hongkong -> '	Tokyo	-	ction circumstances				
34 35		/				naires on estimating meeting				
36	30 Sun					d materials				
37	Jul 1 Mon				Collected question	naires on estimating				
38					Lusaka -> Johannesburg -> Hongkong	Supervised trial construction				
39	3 Wed				Hongkong -> Tokyo	Supervised trial construction Supervised trial construction				
20	2 Dec 19 Thu					Organized materials				
20	3 20 Fri					Lusaka -> Johannesburg -> Hongkong				
20	4 21 Sat	/				Hongkong -> Tokyo				

(2) Site Survey for Borehole Excavation Plan

	Date	Hydrog	eologist	Construction Condition Surveyor/ Construction Planner/Construction Supervisor
1	Jul 20 Sat	Tokyo -> Hongkor	ng -> Johannesburg	Supervised trial construction
2	21 Sun	Arrived at J	ohannesburg	Organized materials
3	22 Mon	Johannesburg -> Lusaka	Prepared for water sources survey	Supervised trial construction
4	23 Tue	Contract negotiation with excavator	Surveyed water sources (Chelstone)	Supervised trial construction
5	24 Wed	Surveyed water so	ources (Chelstone)	Supervised trial construction
6	25 Thu	Surveyed water sources (Ng'ombe)		Supervised trial construction
7	26 Fri	Surveyed water sources (Ng'ombe)		Supervised trial construction
8	27 Sat	Supervised trial excavation	Surveyed water sources (Mutendere)	Supervised trial construction
9	28 Sun	Supervised trial excavation	Surveyed water sources (Mutendere)	Organized materials
10	29 Mon	Supervised trial excavation	Surveyed water sources (Kabanana)	Supervised trial construction
11	30 Tue	Supervised trial excavation	Surveyed water sources (Kabanana)	Supervised trial construction
12	31 Wed	Supervised trial excavation	Surveyed tap water (Libala Stage III)	Supervised trial construction
13	Aug 1 Thu	Supervised trial excavation	Surveyed tap water (Libala Stage III)	Supervised trial construction
14	2 Fri	Supervised trial excavation	Surveyed tap water (Northmead)	Supervised trial construction
15	3 Sat	Supervised trial excavation	Surveyed tap water (Northmead)	Supervised trial construction
16	4 Sun	Supervised trial excavation	Surveyed water sources (Chazanga)	Organized materials
17	5 Mon	Supervised trial excavation	Surveyed water sources (Chazanga)	Supervised trial construction
18	6 Tue	Supervised trial excavation	Surveyed water sources (Marapodi/Mandevu)	Supervised trial construction
19	7 Wed	Supervised trial excavation	Surveyed water sources (Marapodi/Mandevu)	Supervised trial construction
20	8 Thu	Supervised trial excavation	Surveyed water sources (Chunga)	Supervised trial construction
21	9 Fri	Supervised trial excavation	Surveyed water sources (Chunga)	Supervised trial construction
22	10 Sat	Supervised trial excavation	Surveyed water sources (Chilenje South)	Supervised trial construction
23	11 Sun	Supervised trial excavation	Surveyed water sources (Chilenje South)	Organized materials
24	12 Mon	Supervised trial excavation	Surveyed water sources (Chawama/John Howard)	Supervised trial construction
25	13 Tue	Supervised trial excavation	Surveyed water sources (Chawama/John Howard)	Supervised trial construction
26	14 Wed	Supervised trial excavation	Surveyed water sources (Jack)	Supervised trial construction
27	15 Thu	Supervised trial excavation	Surveyed water sources (Jack)	Supervised trial construction
28	16 Fri	Supervised tr	ial excavation	Supervised trial construction
29 30	17 Sat 18 Sun	-	ial excavation ial excavation	Supervised trial construction Organized materials
31	19 Mon	Supervised tr	ial excavation	Supervised trial construction
32	20 Tue	-	ial excavation	Supervised trial construction
33	21 Wed	-	ial excavation	Supervised trial construction
34	22 Thu		ial excavation	Supervised trial construction
35	23 Fri		ial excavation	Supervised trial construction
36	24 Sat	•	ial excavation	Supervised trial construction
37	25 Sun	-	ial excavation	Organized materials
38	26 Mon		ial excavation	Supervised trial construction
39	27 Tue	1	ial excavation	Supervised trial construction
40	28 Wed		ial excavation	Supervised trial construction
41	29 Thu	•	ial excavation	Supervised trial construction
42	30 Fri		ial excavation	Supervised trial construction
43	31 Sat	-	ial excavation	Supervised trial construction
44	Sep 1 Sun	-	ial excavation	Organized materials
45	2 Mon		ial excavation	Supervised trial construction
46		Reported to Japanese Embassy and JICA office		Supervised trial construction
47	4 Wed	•	-> Hongkong	Supervised trial construction
48	5 Thu		z -> Tokyo	Supervised trial construction
	2 1.114	=====	, , , , , , , , , , , , , , , , , , , ,	

(3) Second Site Survey

Construction Condition	Sur veyor/Consultation France/Consultation Supervisor	Organized materials	Supervised trial construction	Supervised trial construction	Supervised trial construction	Supervised trial construction	Supervised trial construction	Supervised trial construction		Supervised trial construction		Supervised trial construction	Supervised trial construction	Supervised trial construction	Supervised trial construction	Supervised trial construction	Organized materials	Supervised trial construction
Chief Consultant/Architectural Design,	Construction and Maintenance Planner	Tokyo -> Hongkong -> Johannesburg	Johannesburg -> Lusaka Met with JICA office and consulted with MOE	Consulted with MOE, and surveyed target sites and requested sites	Consulted with MOE and provincial offices, and surveyed requested sites. LWSC and ZESCO survey.	eyed the	MOE	Inspected target sites and refevant factories gned school (Muzoka primary and junior high school)	Team meeting		Inspected target sites, materials strength tests, and relevant factories	Inspected requested sites and consulted with MOE	Reported to Japanese Embassy and JICA office Surveyed the use state of special classrooms	Consulted with MOE and surveyed the use state of special classrooms. ZEPIU survey.	Consulted with MOE, participated in residents meeting, reported to Japanese Embassy and JICA office. Lusaka -> Johannesburg	Johannesburg -> Hongkong	Hongkong -> Tokyo	
sion	Technical Advisor					Surv Consulted with MOE. Consultants reported the conditions.	Made a courtesy visit to the Permanent Secretary of MOE	Inspected the construction site for BESSIP standard designed school (Muzoka primary and junior high school)	Team	Consulted with MOE	Inspected target sites, materials s							
Mission	Project Coordinator				Tokyo -> Hongkong -> Johannesburg	Johannesburg -> Lusaka Consu	Made	Inspected the construction site f				Inspected requested sites and consulted with MOE	Reported to Japanese Embassy and JICA office Lusaka -> Nairobi -> Addis Ababa			Addis Ababa -> Frankfurt	Frankfurt -> Tokyo	Arrived at Tokyo
			Ę	e	Wed	Thu	Fri	Sat	Sun	Mon	101	Tue	Wed	Thu	Fri	Sat	n	Mon
Doto	Date	Sep 22 Sun	23 Mon	24 Tue	25 W	26 T	1 72	28	29 S	30 1		Oct 1 T	2 W	3 1	4	5 S	6 Sun	7 M

Lusaka -> Johannesburg -> Hongkong Reported to Japanese Embassy and Planner/Construction Supervisor Supervised trial construction Supervised trial construction Supervised trial construction Supervised trial construction Construction Condition Surveyor/Construction Hongkong -> Tokyo Organized materials JICA office Materials procurement survey Lusaka -> Johannesburg Site Surveyor Additional site survey for procurement and estimating Additional site survey for procurement and estimating Surveyed target sites and requested site (Jack) and consulted with MOE Supervised trial construction Supervised trial construction Supervised trial construction Supervised trial construction Met with JICA office and made a courtesy visit to Japanese Embassy Organized documents on trial construction. Team meeting Additional site survey for procurement and estimating Surveyed requested sites (11 sites except Jack) Met with JICA office and made a courtesy visit to the Permanent Secretary of MOE Procurement Planner/Estimate Planner Tokyo -> Hongkong -> Johannesburg Construction Condition Surveyor, Signed the minutes of meeting and handed over classrooms (two schools) to MOE. Reported to Japanese Embassy. Johannesburg -> Hongkong Johannesburg -> Lusaka Consulted with MOE Hongkong -> Tokyo and Estimating Team meeting Team meeting Made a courtesy visit to Ministry of Finance Lusaka -> Johannesburg Chief Consultant/Architectural Design, Construction and Maintenance Planner Consulted with provincial and district Consulted with MOE Consulted with MOE offices of MOE Made a courtesy visit to the Director Planning of MOE Consulted with the Permanent Secretary of MOE Consulted with the Director Planning of MOE Discussed minutes of meeting with MOE Met with JICA office Team Leader Mission Mon Mon Sun Tue Wed Wed Thu Sat Sun Tue Thu Sat Æ Æ Date Dec 15 16 17 18 19 20 21 22 23 7 25 26 27 28 10 = 4 7 α 4 2 9 ∞ 6 12 13

Appendix-6

(4) Briefing on Draft Report and Additional Surveys

(5) Briefing on Draft Final Report Result and Survey

Mi Tearr	Mission Team Leader	Chief Consultant/Architectural Design, Construction and Maintenance Planner	Construction Condition Surveyor/ Procurement Planner/Estimate Planner	Architect
leam Lead	er	Tokvo -> Honokono -> Iohannechuro		Tokvo.> Honokono.> Iohannechiiro
		Johannesburg -> Lusaka Met with JICA office and consulted with MOF		Johannesburg -> Lusaka Met with JICA office and consulted with
		Consulted with MOE and met with JICA office Supervised trial construction		Consulted with MOE and met with JICA office Supervised trial construction
		Consulted with MOE and met with JICA office Supervised trial construction	Tokyo -> Hongkong -> Johannesburg	Consulted with MOE and met with JICA office Supervised trial construction
		Consulted with MOE Met wi	Johannesburg -> Lusaka Met with JICA office and supervised trial construction	Consulted with MOE uction
		Consulted with MC	Consulted with MOE, met with JICA office, and supervised trial construction	trial construction
			Surveyed requested sites	
		Team meeting	ecting	Lusaka -> Johannesburg
		Consulted with MOE, met with JICA office, and handed over classroom (one school) to MOE	, and handed over classroom (one school) OE	Johannesburg -> Hongkong
		Consulted with MOE, met with JICA office, and inspected classrooms (two schools) for defect	e, and inspected classrooms (two schools) efect	Hongkong -> Tokyo
/		Consulted with MOE, met with JICA office, and inspected classroom (one school) for defect	ce, and inspected classroom (one school) efect	
	Signed minutes of meetir	of meeting, and reported to Japanese Embassy and JICA office	and JICA office	
		Lusaka -> Johannesburg -> Hongkong	burg -> Hongkong	
	\	Hongkong -> Tokyo	-> Tokyo	

Appendix 3. List of Parties Concerned in the Recipient Country

(1) Basic Design Study

Japanese Embassy in Zambia

Takashi NIIUMA First Secretary

JICA Zambia Office

Katsuhiro SASAKI Resident Representative

Hakushi HAMAOKA Assistant Resident Representative

Satoshi NAKAMURA Technical Cooperation Advisor in Education

Tsuneo TSURUSAKI Development Planning Adviser

Ministry of Education

Ms. Barbara Y. Chilangwa Permanent Secretary

Dr. Lawrence W. Musonda Director Planning / BESSIP Coordinator

Ms. M. R. Maiyenkunku Deputy Director Planning

Ms. Bridget N. Cuitambo Financial Manager

Mr. Joseph F. Nthele Chief Building Officer, Building Section

Planning Unit

Mr. Paschal Chiluba Senior Building Officer, Building Section

Planning Unit

Mr. Peter S. Chiuto Architect, BESSIP/SIS

Mr. Inambao Mang'elele Technical Assistant / Civil Engineer, BESSIP/SIS

Mr. S. Hakalima Director Procurement & Supply Unit

Ministry of Finance

Ms. F. Chongola Acting Director of Economic and Technical Cooperation
Ms. Agnes Musunga Chief Economist Department of Economic and Technical

Ms. W.S. Akapelwa Senior Economist Department of Economic and

Technical

Mr. C.J. Sikazwe Technical Officer ZAMSIF(Zambia Social Investment

Fund)

Ministry of Work and Supply

Mr. Whytone Ngulube Building Department Chief Engineer

Ministry of Agriculture and Cooperative

Mr. George Phiri Chief Engineer

Lusaka Provincial Education Office

Mrs. Alice M. Nzala Acting Senior Education Officer

Mr. Billy Kasasa Senior Building Officer

Mr. Fred Kayula Volunteer Staff
Mr. Patrick Chaandi Volunteer Staff

Chongwe District Education Office

Mr. A.E. Simwawa District Education Officer

Lusaka District Education Office

Mr. S.N. Kaimika Deputy Education Officer
Mr. Josiah Simumbu Senior Building Officer

Lusaka District Council

Mr. Timothy Hakuyu City Planning Department Director

Mr. Kangwa Chama

City Planning Department Deputy Director

Mr. Joseph Mukupper

City Planning Department Assistant Director

Mr. Joseph Zuru

City Planning Department City Planner

Mr. Moyo

City Planning Department City Planner

Mr. Zebron Zuru

City Planning Department Surveyor

Ms. Miriam Siavuta Department of Housing Senior Community Development

Officer

National Housing Authority

Mr. Baldwin Mbuzi Director of Project

Mr. Daniel Mambwe Surveyor

World Bank

Mr. Clement Siamatowe Education Specialist

CARE

Mr. Anderson K. Chibwe Project Manager Education Project

(2) Second Field Study

Japanese Embassy in Zambia

Taeko INAGAKI Special Assistant

JICA Zambia Office

Katsuhiro SASAKI Resident Representative

Hakushi HAMAOKA Assistant Resident Representative

Satoshi NAKAMURA Technical Cooperation Advisor in Education

Osamu YAMADA Technical Advisor of Grant Aid Project

Ministry of Education

Ms. Barbara Y. Chilangwa Permanent Secretary
Mr. B. Mwange Electric Engineer

Mr. Joseph F. Nthele Chief Building Officer, Building Section

Planning Unit

Mr. Paschal Chiluba Senior Building Officer, Building Section

Planning Unit

Lusaka Provincial Education Office

Mr. D.S. Bowasi Provincial Education Officer
Mrs. Alice M. Nzala Acting Senior Education Officer

Mr. Billy Kasasa Senior Building Officer

Mr. Fred Kayula Volunteer Staff

(3) Explanation on Draft Report

Japanese Embassy in Zambia

Hiroyuki ISHI Ambassador of Japan Yurika NUMATA Special Assistant

JICA Zambia Office

Koji OTA Deputy Resident Representative Hakushi HAMAOKA Assistant Resident Representative

Satoshi NAKAMURA Technical Cooperation Advisor in Education

Tsuneo TSURUSAKI Development Planning Adviser

Ministry of Education

Ms. Barbara Y. Chilangwa Permanent Secretary

Dr. Lawrence W. Musonda Director Planning / BESSIP Coordinator
Mr. Joseph F. Nthele Chief Building Officer, Building Section

Planning Unit

Mr. Paschal Chiluba Senior Building Officer, Building Section

Planning Unit

Mr. Peter S. Chiuto Architect, BESSIP/SIS
Mr. Christopher Katundu Chief Planning Officer

Ministry of Finance and National Planning

Ms. Agnes Musunga Chief Economist Department of Economic and

Technical

Ms. Pmscilla Musole Senior Economist Department of Economic and

Technical

(4) Explanation on Draft Final Report

Japanese Embassy in Zambia

Yurika NUMATA Special Assistant

JICA Zambia Office

Koji OTA Deputy Resident Representative

Hakushi HAMAOKA Assistant Resident Representative

Satoshi NAKAMURA Technical Cooperation Advisor in Education

Ministry of Education

Ms. Barbara Y. Chilangwa Permanent Secretary

Mr. Joseph F. Nthele Chief Building Officer, Building Section

Planning Unit

Mr. Peter S. Chihuto Architect, BESSIP/SIS

Ministry of Finance

Ms. Agnes Musunga Chief Economist Department of Economic and

Technical

Lusaka Provincial Education Office

Mrs. P.C.Simukauda Acting Senior Education Officer

Appendix 4. Minutes of Discussion

(I) Basic Design Study

MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY

ON THE PROJECT FOR CONSTRUCTION OF BASIC SCHOOLS IN LUSAKA DISTRICT

IN THE REPUBLIC OF ZAMBIA

In response to a request from the Government of the Republic of Zambia (hereinafter referred to as "Zambia"), the Government of Japan decided to conduct a Basic Design Study on the Project for Construction of Basic Schools in Lusaka District (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Zambia the Basic Design Study Team (hereinafter referred to as "the Team"), headed by Mr. Masaaki MATSUSHIMA, Director of First Project Management Division, Grant Aid Management Department, JICA, and is scheduled to stay in the country from May 27, 2002 to July 2, 2002.

The Team held discussions with the officials concerned of the Government of Zambia 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 Basic Design Study Report.

Lusaka, June 4, 2002

Mr. Masaaki Matsushima

Leader

Basic Design Study Team

Japan International Cooperation Agency

Ms. Barbara Y. Chilangwa Permanent Secretary

Ministry of Education

witnessed by:

Ms. F. Chongola

Acting Director of ETC

Ministry of Finance and National Planning

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ATTACHMENT

1. Objective of the Project

The objective of the Project is to improve access and quality of Basic Education in Lusaka District through school building construction.

2. Project Sites

The sites of the Project are located in Lusaka District.

3. Responsible and Implementing Organizations

- 3-1. The Responsible Organization is the Ministry of Education.
- 3-2. The Implementing Organization is the Planning Unit and the Infrastructure Component of BESSIP, Ministry of Education, in cooperation with Lusaka Provincial Education Office and Lusaka District Education Office.
- 3-3. The organization chart of the Ministry of Education is attached as ANNEX 1.

4. Items requested by the Government of Zambia

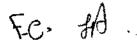
After discussions with the Team, the items described in ANNEX 2 were finally requested by Zambian side. JICA will assess the appropriateness of the request and will recommend the findings to the Government of Japan for approval. The candidate sites should be surveyed and examined in accordance with the criteria attached as ANNEX - 3.

5. Japan's Grant Aid Scheme

- 5-1. The Zambian side understood Japan's Grant Aid Scheme explained by the Team, as described in $\overline{\rm ANNEX}$ 4.
- 5-2. The Zambian side will take the necessary measures, as described in ANNEX 5, for smooth implementation of the Project, as a condition for implementation of Japan's Grant Aid.

6. Schedule of the Study

- 6-1. The consultant team will stay in Zambia until July 2, 2002 to conduct further studies.
- 6-2. JICA will dispatch a mission in order to study the progress of the trial constructions around September, 2002. To supervise the trial constructions, one member of the consultants will remain in Lusaka until the completion of trial constructions.
- 6-3. JICA will prepare the first draft report in English and dispatch a mission in order to explain its contents around November, 2002.
- 6-4. Based on the results of discussions of the first draft report, JICA will proceed to





further examination of the study results in Japan until January, 2003.

6-5. JICA will prepare the final draft report in English and dispatch a mission in order to explain its contents around February, 2003.

6-6 In case that the contents of the final draft report is accepted in principle by the Government of Zambia, JICA will complete the final report and send it to the Government of Zambia by the middle of April, 2003

7. Trial Construction

- 7-1. The Zambian side understood that the objectives of the trial construction is to obtain the following information:
 - 1) Construction capability of local contractors
 - 2) Quality, price and availability of local construction materials
 - 3) Capability, wage and availability of local construction workers
 - 4) Construction cost
 - 5) Appropriate material, design, specification and construction method of facilities
 - 6) Appropriate construction schedule
 - 7) Major items to be supervised during construction
- 7-2. Both sides agreed that the trial construction would be conducted in the following three sites, as expansion of existing middle basic school. The locations of the trial constructions are shown in ANNEX 6.

No.	Name of School	Location
1	Chunga Basic School (middle basic school)	Chunga Compound
2	Justine Kabwe Basic School (middle basic school)	Marapodi Compound
3	Kalingalinga Basic School (middle basic school)	Kalingalinga Compound

- 7-3. Both sides agreed that the following works would be done in each school under the trial construction.
 - Construction of I school building (3 classrooms with blackboard, 1 teacher's room)
 - Procurement of furniture (desks, chairs)

FC. M

- 7-4. Both sides agreed that the trial construction will be conducted by using modified BESSIP standard, taking into consideration of the purpose of trial construction.
- 7-5. The Zambian side agreed that JICA would conduct trial constructions through contracts between the consultant and the contractors. The contractors should be one Japanese contractor and two local contractors, which should be determined through selected tendering.
- 7-6. Both sides agreed that Ministry of Education should be involved in some important stages of the trail constructions according to necessity, such as tender process, inspections during construction, etc.
- 7-7. Both sides agreed that the property right of the facilities belongs to JICA during the trial construction period.



- 7-8. The Zambian side requested the hand-over of the facilities after the completion of trial construction. The Team explained that the final decision of the hand-over would be made on the basis of the Zambian side's written request after the completion of the trial construction.
- 7-9. The Zambian side understood that it would take all responsibilities relating to the hand-over and the operation and maintenance of the facilities after hand-over such as tax, assignment of teaching staff.
- 7-10. The Zambian side agreed that the necessary measures will be taken to ensure that all fiscal levies and taxes (except for Value Added Tax) relating to trial constructions would be exempted from the consultant.

8. Other Relevant Issues

8-1. Project Title

Both sides agreed that the Project title should be " Project for Construction of Basic Schools in Lusaka District ".

8-2. Phase of the Study

This basic design study is divided into two phases. The first phase is to prepare the first draft report of the study through site surveys. The second phase is to conduct a detailed design level study and to prepare the final report including drawings of the facilities.

8-3. Use of the results of detailed design level study

The Team explained that the Zambian side should be responsible for the outcome caused by using the result of the detailed design level study and not claim any responsibility to the Japanese side in this matter. However, the Zambian side expressed that the both sides should be responsible for that. Therefore, the both sides agreed that the defect and liability of drawings should be further discussed and finalized before the implementation stage of the Project.

8-4. Number of schools and classrooms

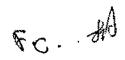
Both sides agreed that the total number of the requested schools, classrooms and other components might not be fully covered by the project according to the assessment of needs for each school.

8-5. Design criteria on the facility

Both sides agreed that the school buildings in the implementation stage (in case the project is approved by Japanese cabinet) should principally follow the BESSIP standard. However, the modification of BESSIP standard may be possible in the Project as a result of the basic design study, based on the necessity through the discussion between both sides.

8-6. Water supply facilities, gates and fences

Both sides agreed that gates and fences for each school would be prepared by Zambian side. However, the Zambian side requested that the study for water supply facilities including groundwater development in each school would be conducted by the Team,





if necessary. The Japanese side agreed that the above-mentioned study would be conducted within the Basic Design Study, however, the responsibility for actual physical drilling and fabrication in the implementation stage would be finally determined based on the study analysis.

8-7. Land Ownership document

The Zambian side agreed to provide the Team with necessary information to confirm the land ownership for the construction sites by June 28, 2002.

8-8. Allocation of teachers and administration staff

The Zambian side agreed to allocate sufficient number of teachers and administrative staff for the schools to be constructed by the completion of construction works.

8-9. Operation and maintenance

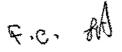
The Zambian side agreed to allocate necessary budget for the proper operation and maintenance of facilities and equipment covered by the Project.

8-10. Needs in other Provinces

The Zambian side expressed the wish to extend the project to any other Provinces, e.g. Copperbelt Province.

8-11. Financial report

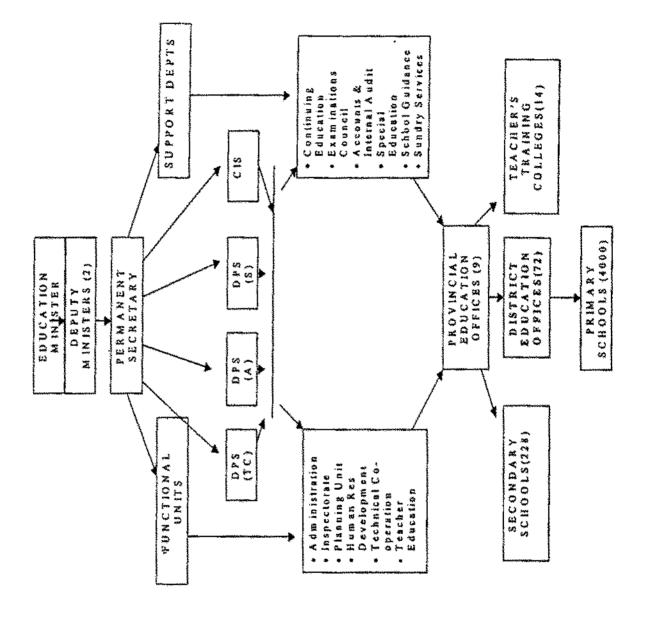
The both sides agreed that the activity report including payment should be given by Japanese consultant to Zambian side without delay to avoid any inconvenience of the smooth implementation of the Project and delays in financial reporting.

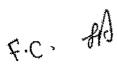




ANNEX 1. Organi tion chart of Ministry of Ed ration

Admin stru. Cont



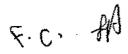


€ Appendix-17

ANNEX 2: Major items requested by the Zambian Side (1/3)

The following sites are listed by Zambian Side as candidates for new Basic School constructions.

- 1. Mtendere
- 2. Chunga
- 3. Kabanana
- 4. Northmead
- 5. Ng'ombe
- 6. Libala Stage III
- 7. Chilenje South
- 8. Chelstone
- 9. Chazanga
- 10. Chawama/John Howard
- 11. Marapodi/Mandevu
- 12. Jack



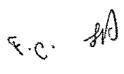


Facility components necessary for a typical BESSIP basic school;

Facilities and furniture		Quantity	Specifications and standards on which to base calculation			
Facilities	Regular classroo	HUS	28	As per MOE standard: 40 students per classroom		
			,	Floor area per class room: approx. 58 m²		
	Special-purpose	classrooms	7	As per MOE standard: 20 students per classroom except library		
	attack and the same of the sam			To be used as home economics and industrial arts rooms		
				The contents of the special-purpose classrooms;		
				2 Industrial Arts classrooms (carpentry, drawings)		
				2 Home Economics classrooms		
				1 Library. 1 Laboratory,		
		-1		I classroom for SEN(Special Education Needs)		
	Administration o	ffice	1 building	As per MOE standard		
			Bellin Common and the	Including head teacher's, deputy head teacher's and meeting rooms, and storage		
	Caretaker's house		1 building	As per MOE standard		
	Lavatories	Flush type	4 buildings	For male students: stalls/urinals: 8/16		
		- Children		For female students: 12		
				For male teachers: 2		
		<u> </u>		For female teachers: 2		
		Seepage type	2 buildings	For male students: 5		
				For female students: 5		
				For male teachers: 1		
				For female teachers: 1		
		Washbasins		For male: 8		
				For female: 8		
	Water supply	Well, pump room, elev		Required pumping rate: as per MOE standard		
	and sewerage facilities	sewerage treatment fac	ility	For students and teaching staff: 20 lit/head		
	Inclinations.			For caretaker's dwelling: 120 lit/head		
Furniture	Regular classrooms	Desk and chair (student)	560	Two-seater type: 20/classroom		
	Classicoms			Note: The quantity does not add up. 20 x 28 = 560		
		Desk (teacher)	28	I each/classroom		
				Note: The quantity does not add up. 1 x 28 = 28		
		Chair (teacher)	28	1 each/classroom		
				Note: The quantity does not add up. 1 x 28 = 28		
3	Special-purpose	Table for crafts	111	11 tables classroom. 11 x 4 = 44		
	classrooms			1 table per 4 students plus 1 table for teacher, 40/4 + 1 = 11 tables/classroom		
			<u> </u>	For carpentry lessons, 10 heavy-duty benches		
		Chair for crafts	164	41 chairs/classroom, 41 x 4 = 164		
				1 table for student and 1 table for teacher		
	Administration office	Deck and chair	3	Head teacher, deputy head teacher and administrator		
		Cabinet	3			
		Locker	3			
		Chair for visitor	6			
		Bulletin board	4			
		Desk for meeting	5			
		Chair for meeting	24	4 chairs per table		

Equipment necessary for a typical BESSIP basic school;

Equipment			Quantity	y Description			
Equipment	Educational	For general education	28 sets	Triangle, straight edge, compass and protractor			
	equipment	For home economics lessons	4 sets	Sewing machine and cooker table with oven: 1 set/classroom			
	ļ		ļ	Refrigerator: 1 set/school			
	With the second	For carpentry lessons	4 sets	Tools: 1 set/special-purpose classroom: plane (10), saw (10), chisel (5), hammer (5), set square (5), tape measure (5), engineer (1)			
	All parties and the second sec		CONTRACTOR OF THE STATE OF THE	Equipment: 1 set/2 special-purpose classroom: drilling machine (1), bench grinder (1), welding machine (1), drill bits (2), grinding disk (2), welding rod (1 box)			

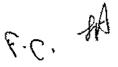




ANNEX 3: Criteria for Selection of Schools/Sites covered by the Project

Schools/sites satisfying the following criteria will be given priority:

- (1) Current and future quantitatively estimated needs for classrooms confirmed by population growth rate, number of school-aged children, enrollment ratio and other relevant data;
- (2) Sufficient teachers, budget allocation, and necessary cooperation from concerned people to operate and maintain facilities properly;
- (3) Legally confirmed ownership of land for construction;
- (4) Topographically safe and appropriate size of land for construction;
- (5) No constraints against construction such as occupation of out-of-law houses.
- (6) Proper access roads to carry construction materials and equipment into respective sites;
- (7) No threat of natural calamity to endanger the schools/sites;
- (8) No security problem around the schools/sites;
- (9) No other program or plan for new/undergoing classroom construction by other donors, NGOs and so forth.



B,

Annex-4 The Japan's Grant Aid Scheme

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

(1) Grant Aid Procedure

Study

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

Application (Request ma

(Request made by a recipient country)
(Basic Design Study conducted by IICA)

Appraisal & Approval

(Appraisal by the Government of Japan and Approval by Cabinet)

Determination of Implementation

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

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

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

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

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

Finally, for the implementation of the project, IICA assists the recipient country in such matters as preparing tenders, contracts and so on.

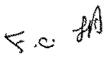
(2) Basic Design Study

1) Contents of the Study

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

- a) confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation:
- b) evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view:
- e) confirmation of items agreed on by both parties concerning the basic concept of the Project:
- d) preparation of a basic design of the Project: and
- e) estimation of costs of the Project.

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





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

2) Selection of Consultants

For the smooth implementation of the Study, IICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates in the Study and prepares for a report based upon the terms of reference set by IICA.

At the beginning of implementation after the Exchange of Notes, for the services of the Detailed Design and Construction Supervision of the Project. JICA recommends the same consulting firm which participated in the Study to the recipient country in order to maintain the technical consistency.

(3) Japan's Grant Aid Scheme

I) Exchange of Notes (E N)

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

3) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed.

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

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

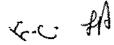
When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

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

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 the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

- 5) Undertakings required to the Government of the recipient country
 - a) to secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction:
 - b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites:
 - e) to ensure all expenses and prompt execution for unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the



BR

products purchased under the Grant Aid;

- d) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts:
- e) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work:

6) "Proper Use"

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

7) "Re-export"

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

8) Banking Arrangement (B:A)

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



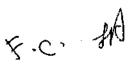
Appendix-24

FLOW CHART OF JAPAN'S GRANT AID PROCEDURES Flow & Works Stage Request Application Evaluation of Terms of Reference Field Survey Home Office Work Reporting Selection & Contracting of naultant by Proposa Basic Design Study (Project Formulation & Preparation) Basic Design Trial Construction Inspection of Construction Draft Report Field Survey Home Office Work Reporting Additional Survey Detailed Design Final Report Appraisal & Approval Inter-Ministerial Consultation Presentation of Draft Notes Approval by the Cabinet Banking Issuance of Authorization to Pay Verification Approval by Recipient Preparation for Tender Tender Documents Implementation Tendering & Evaluation Authorization to Pay Verification Completion Certificate by Recipient Governm Authorization to Pay Post Evaluation Study Ex-Post Evaluation



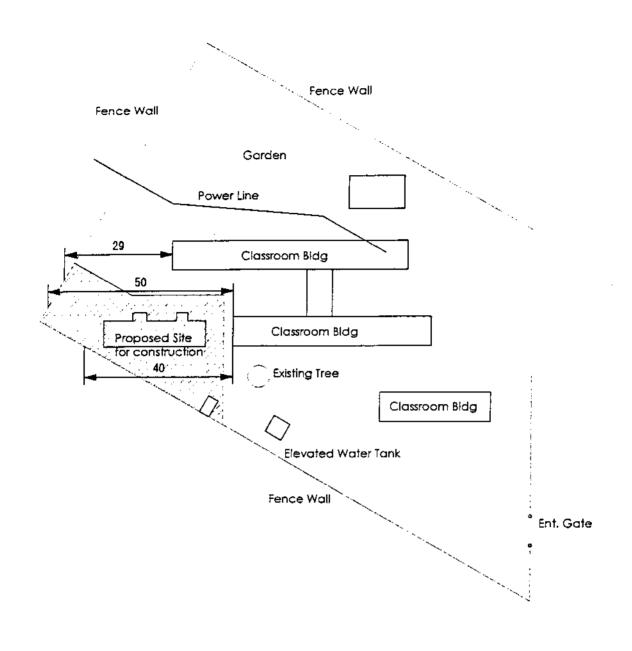
Annex - 5 Necessary measures undertakings by each government

N	3 :	liems	To be covered by Grant Aid	To be covered by Recipient side
1	To secure land			•
2	To clear, level	and reclaim the site when needed		•
3	To construct g	ates and fences in and around the site	······································	•
4	To construct ប៉	re parking lot	. •	
_	To construct re	108	······································	
5	1) Within th	e site	•	
	-			
	: 2) Outside t	he site	:	•
ó	To construct th		• ;	
	To provide fac	lities for the distribution of electricity, water supply. drainage and of	her incidental facilitis	es .
	1) Electricay			
	a. The di	stributing line to the site		•
:	b. The dr	op wiring and internal wiring within the site	• •	· · · · · · · · · · · · · · · · · · ·
	c. The m	nin circuit breaker and transformer	•	<u> </u>
	2) Water Suppl	Y		**************************************
	a. The cit	y water distribution main to the site	- Andrew Control to management and the second secon	•
	b. The su	pply system within the site	•	,
_	3) Drainage			With the desired control of the second contr
	a. The cit	y draininge main (for storm, sewer and others) to the site		•
		ainage system i for toilet sewer, ordinary waste, storm drainage and		
	others : 4) Gas Supply	within the site	**************************************	
		y gas main to the site		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		s supply system within the site	· · · · · · · · · · · · · · · · · · ·	····
	5) Telephane Sy			,
	2			
	a, inc ic	ephone trunk line to the main distribution frame; panel (MDF) of	and the second	•
		OF and the extension after the frame panel	• }	- 12 P-Q1
	6) Fumiture and	l Equipment	Manus agas hijibbana, in haran sa 	
	a. Genera	I furniture	<u> </u>	•
	b. Project	equipment :	•	<u></u>
	To bear the follo	ewing commissions to a bank of Japan for the banking services based u	pon the B/A	
	1) Advising co	ommission of A.P		•
8	2) Payment co	mm)ssion		•
		of unloading and customs clearance at the port of disembarkation in rec	cipient country	
		transportation of the preducts from Japan to the recipient country		···
a		ption and customs clearance of the products at the port of		
J .	disembarka	tion :		
	3) Internal tras	sportation from the port of disembarkation to the project site	!● }	₹♠}
Ю	To accord Jap	anese nationals whose services may be required in connection with:		
:	the supply of the	he products and the services under the verified contact such facilities assary for their entry into the recipient country and stay therein for the	•	:
	performance of	f their work	·	1 A
11		panese nationals from customs duties, internal taxes and other fiscal		•
		tay be imposed in the recipient country with respect to the supply of its services under the verified contracts	•	
12	To maintain	and use properly and effectively the facilities constructed and	**************************************	•
1.7	equipment pro	vided under the Grant		
t.1		e expenses, other than those to be borne by the Grant, necessary for f the facilities as well as for transportation and installation of the		**************************************
	equipment	•		





ANNEX 6 Location of the Trial Construction

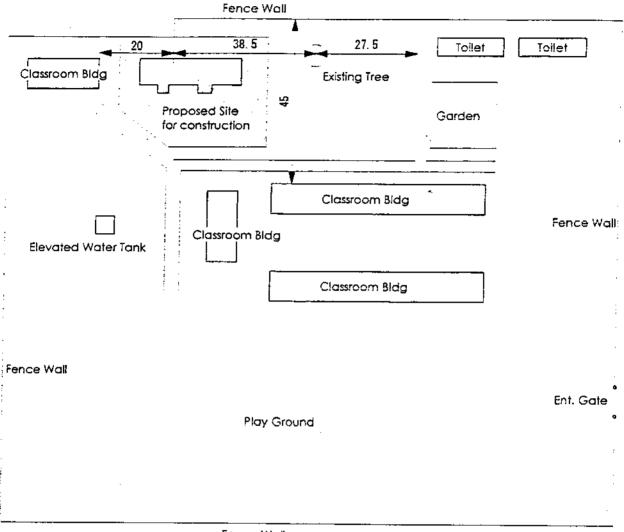


CHUNGA MIDDLE BASIC SCHOOL

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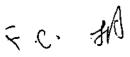


Fence Wall

JUSTINE KABWE MIDDLE BASIC SCHOOL

1

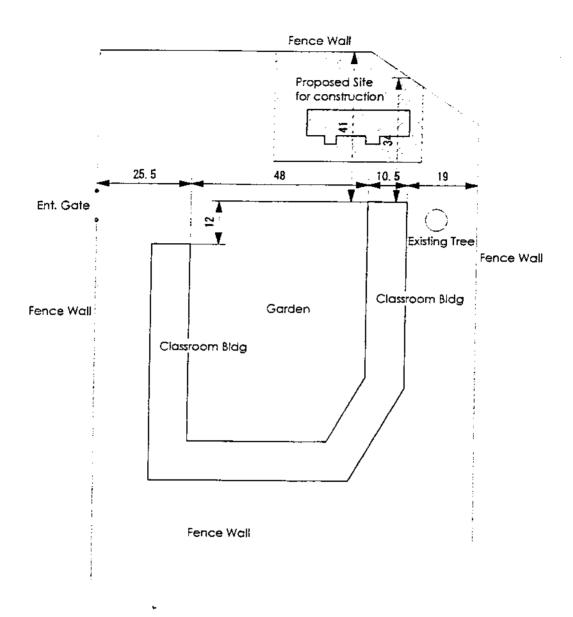
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Play Ground



N A

KALINGALINGA MIDDLE BASIC SCHOOL

Scale: 1/ 1.000

/8 Appendix-29

AA

Selection of Trial Construction Sites A ANNEX ?

STAE LODGE"B" CHILENJE watch man MOE O ! 0 Ö 0 0 0 O KABWE Pannja is not warking JUSTINE attrolonly MOE 0 0. 0 0 0 0 4 0 CHUNGA 2 políce nacu MOE Ο, 0 0 0 0 0 0 0 CHIBOLYA 8 police men Some rocks are there MOE ◁ 0 O \bigcirc 0 0 0 KABWATA 3 watch men MOE 0 0 0 0 0 ◁ 0 LUSAKASA X MTENDERE X KALINGA. 3 watch men LINGA MOE O: 0 0 0 O ◁ 0 Difference in Police Office CHIBELO evel is there 2 watch men MOE <1 0 O ! 0 0 0 Site Name The Land is Flat and Soil Condition is Good Construction Volucies are Easily Accessible The Land is not inundated by Floods in the 1 There is an Evident Need for Construction renoval of existing bldgs) is unrecessary Preparatory Work (land preparation and Water and Electricity for Construction Legal Ownership of Land presents no The Area of the Site is Large enough (More than 40m × 30m) Security is Ensured at Site purposees are available Rainy Scason to the Site problem Criteria N 4

NOTE

: The site is switchle for the Trial Construction.

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JUDGEMENT

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or implemented at Site

No Construction Project by Other

Police ()flicer

: There is a possibility to be the site for the Trial Construction. 0

There is few possibility to be the site for the Trial Construcction. < ×

: The site is not suitable for the trial construction.

MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BASIC SCHOOLSIN LUSAKA DISTRICT IN THE REPUBLIC OF ZAMBIA

(EXPLANATION ON DRAFT REPORT)

In June 2002, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Construction of Basic Schools in Lusaka District (hereinafter referred to as "the Project") to the Government of the Republic of Zambia (hereinafter referred to as "Zambia"), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft final report of the study.

In order to explain and to consult the Zambian Government on the components of the draft final report, JICA sent to Zambia the Draft Report Explanation Team (hereinafter referred to as " the Team "), which was headed by Mr. Koji Ota, Deputy Resident Representative, the Zambian Office of JICA, from December 15 to December 28, 2002.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Lusaka, December 26, 2002

Mr. Koji Ota

Leader

Basic Design Study Team

Japan International Cooperation Agency

Ms. Barbara Y. Chilangwa

Permanent Secretary

Ministry of Education

witnessed by:

Ms. A. Musunga

Chief Economist

Ministry of Finance and National Planning

ATTACHMENT

1. Components of the Draft Final Report

The Government of Zambia agreed and accepted in principle the components of the draft final report explained by the Team. Moreover, the Zambian side understood that the final decision in this matter would be made by the Japanese side.

2. Japan's Grant Aid Scheme

The Zambian side understood the Japan's Grant Aid Scheme as explained by the Team and described in Annex-4 of the Minutes of Discussions signed by both parties on June 4, 2002.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Zambian side by April, 2003.

4. Other relevant issues

4-1. Schools, Facilities and Equipment covered by the Project

Both sides agreed on schools, facilities and equipment covered by the Project as shown in Annex-1 and Annex-2

4-2. Necessary measures to be taken by the Zambian side

The Zambian side understood to take necessary measures as shown in Annex-3 for the smooth implementation of the Project. Besides, the Zambian side assured to execute necessary works as shown in Annex-4 and to open the budget line for the next fiscal year (2003/2004).

4-3. Allocation of Personnel and Budget

The Zambian side assured to allocate necessary budget and personnel (teaching & administrative staff) for operating school facilities and equipment under the supervision of Ministry of Education.

4-4. Proper Use and Maintenance

Both sides understood that proper use and maintenance of the facilities and equipment would be indispensable for their lifelong use. Now, the Zambian side assured to facilitate proper use and maintenance of the school facilities and equipment covered by the Project.

4-5. Security Measures

The Zambian side fully understands the importance of assurance of safety for personnel concerning the Project, and that the Zambian side should take necessary security measures for Japanese related to the Project during the project implementation.

4-6. Contents of the Draft Final Report

Both sides confirmed that the contents of the draft final report should be confidential. In order to keep the confidentiality, both sides should not disclose the contents to the third parties and not duplicate the draft final report itself.

4-7. Water taps for Environmental Science Room

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Be-

∠ div 2 JICA proposed that one water tap be fitted in three regular classrooms those could be used as home economics, industrial arts and environmental science rooms. But, as a result of discussion, both sides confirmed that three water taps would be fitted in one regular classroom that can be used as the environmental science room.

4-8. Socket for Regular Classroom

As a result of discussion, both sides confirmed that one socket would be fitted in each regular classroom that could be effectively used for plain experimentation, workshop of teachers, and so on.

4-9. Controlled use of Lavatory

The Zambian side assured to be responsible for the proper controlled use of lavatories, especially in case of power stoppage, locking the gates between water borne toilets and pit latrines in order to avoid the incorrect use of water borne toilets, because water borne toilets and pit latrines are in the same building.

End

Appendix-33

A.M





List of Sites to be Provided under the Japanese Grant Aid Project

The following 12 sites are selected for the project. And the project will be implemented in two phases. The schools for each phase will be selected according to the priority indicated by the Ministry of Education, with the highest priority schools being constructed in Phase 1.

PHASE 1

- 1. Jack
- 2. Chunga
- 3. Chazanga
- 4. Chawama/John Howard
- 5. Chelstone
- 6. Ng'ombe

PHASE 2

- 7. Marapodi/Mandevu
- 8. Chilenje South
- 9. Northmead
- 10. Mutendere
- 11. Kabanana
- 12. Libala Stage III

LA.



ANNEX-2

List of Facilities and Equipments to be Provided under the Japanese Grant Aid Project

The following facilities and equipments are provided for each sites mentioned in ANNEX-1.

□ Facilities

- 1. 23 Regular Classroom
- 2. 1 Home Economics Room
- 3. 1 Administration Building
- 4. 1 Teachers' Office
- 5. 1 Library Space
- 6. I Guardhouse
- 7. 2 Lavatories

□ Equipments

- 1. Desk and Chair of Students and Teachers for Classrooms
- 2. Furniture for Administration Office
- 3. Equipments for Regular Classrooms
- 4. Equipments for Home Economics Room



Bi.

Necessary Measures to be taken by Zambian Side

Zambian side for the smooth implementation of the Project takes the following measures.

- (1) Secure the land for the project and ensure its ownership into the future
- (2) Pay the advice fees, payment commissions, etc. for the Authorization to Pay (A/P) to Japanese banks in accordance with the Banking Arrangement (B/A)
- (3) Speedily conduct necessary customs procedures for the equipment and materials for the project
- (4) Provide exemption from the customs duties levied in Zambia on the services and equipment/materials provided in accordance with the approved agreement, and the domestic taxes levied on Japanese companies and Japanese individuals and other fees
- (5) Ensure the means for entry to and residence in Zambia needed to provide the services of the Japanese individuals and members of Japanese corporations needed to provide services and equipment/materials in accordance with the approved agreement
- (6) Issue the permits, exemptions etc. needed for project implementation, without delay
- (7) Secure the budget needed for satisfactory operation and measures against vandalism of the classrooms constructed in the project
- (8) Assign suitable teachers and secure the necessary measures for recruitment of students
- (9) (To be done by the Ministry of Education) Implement regular monitoring to ensure that the facilities constructed and equipment/materials provided by the grant aid are being suitably maintained by the Ministry of Education and the parent's association of that school, etc., and provide appropriate guidance and advice as needed
- (10) (To be done by the Ministry of Education) Establish the personnel and budgetary means for maintenance of water supply facilities
- (11) Bear all costs needed for planning not provided by Japanese grant aid





ANNEX-4

Necessary Works to be taken by Zambian Side

Zambian side for the smooth implementation of the Project executes the following works.

- (1) Remove existing facilities and structures (ex. the lavatories in Kabanana) that may hinder the construction, prepare the ground for construction and cut down trees prior to the start of construction
- (2) Perform electric wiring (all the sites) and water piping to the site (Lihala Stage III and Northmead) and drainage from the site, and other incidental facility construction and work
- (3) Construction of Fence and Gate

1

Appendix-37



(3) Explanation on Draft Final Report

MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON THE PROJECT FOR CONSTRUCTION OF BASIC SCHOOLSIN LUSAKA DISTRICT IN THE REPUBLIC OF ZAMBIA

(EXPLANATION ON DRAFT FINAL REPORT)

In May 2002, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Construction of Basic Schools in Lusaka District (hereinafter referred to as "the Project") to the Government of the Republic of Zambia (hereinafter referred to as "Zambia"), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft final report of the study.

In order to explain and to consult the Zambian Government on the components of the draft final report, JICA sent to Zambia the Draft Final Report Explanation Team (hereinafter referred to as " the Team "), which was headed by Mr. Koji Ota, Deputy Resident Representative, JICA Zambia Office, from February 3 to February 14, 2003.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Lusaka, February 13, 2003

Mr. Koji Ota Leader

Basic Design Study Team

Japan International Cooperation Agency

Ms. Barbara Y. Chilangwa Permanent Secretary

Ministry of Education

witnessed by:

Ms. A. Musunga Chief Economist

Ministry of Finance and National Planning

ATTACHMENT

1. Components of the Draft Final Report (including the Drawings)

The Government of Zambia agreed and accepted in principle the components of the draft final report (including the Drawings) explained by the Team. Moreover, the Zambian side understood that the final decision in this matter would be made by the Japanese side.

2. Other relevant issues

2-1. Land Ownership of "Jack"

The Zambian side confirmed that the Zambian side would take responsibility for the land ownership of the site at "Jack" in case of claiming by the third party.

2-2. Modification of Drawings

As a result of discussion, both sides confirmed that the following items of the drawings would be modified. The drawings are attached in sheet 1 to sheet 6.

- (1) Window Size of W1
- (2) Arrangement of Writing Boards
- (3) Wall of Pit for Pit Latrine
- (4) Toilet of Administration Building
- (5) Damp Proof Course
- (6) Spoon Drain

2-3. Construction of Fence and Gate

Both sides reconfirmed that the construction of permanent fence and gate should be made by the Zambian Side

2-4. Allocation of Personnel

The Zambian side assured to allocate necessary personnel for Lusaka Provincial Education Office and Lusaka District Education Office to maintain target sites.

2-5. Other undertakings borne by Zambian side

Both sides confirmed that the other undertakings borne by Zambian side would be unchanged as described in the Minutes of Discussions of the "Explanation on Draft Report", dated December 26, 2002.

End

A.M

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Appendix-39

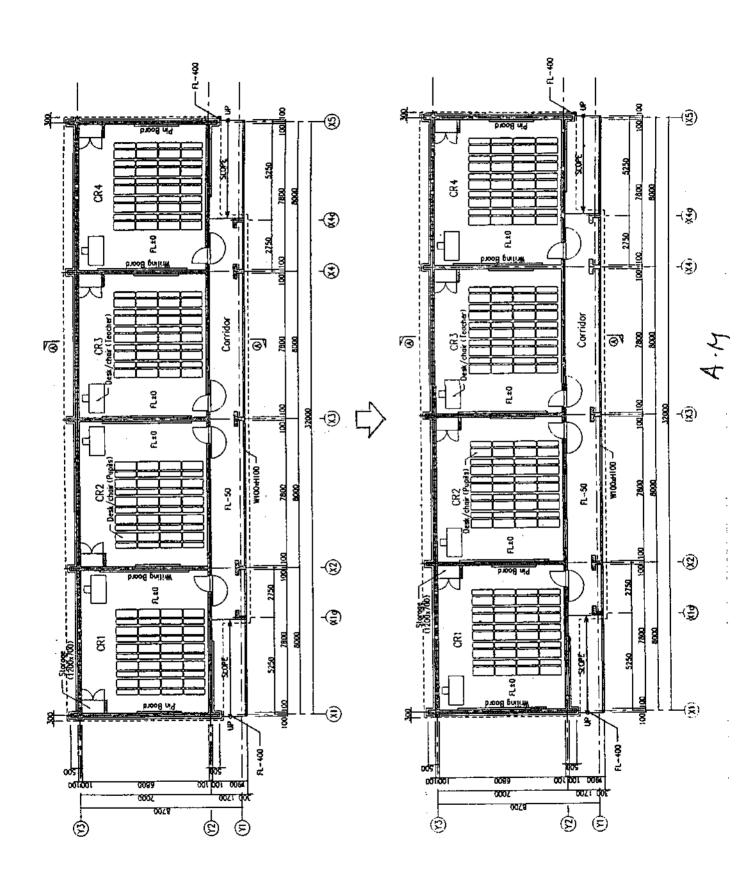
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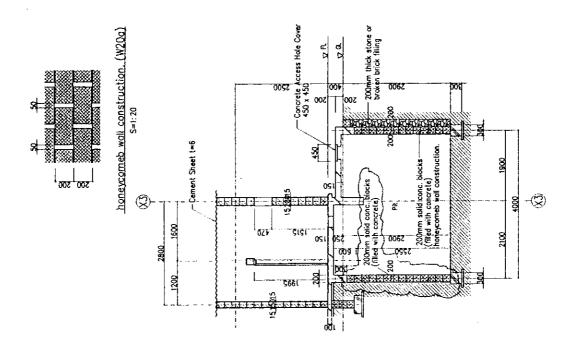
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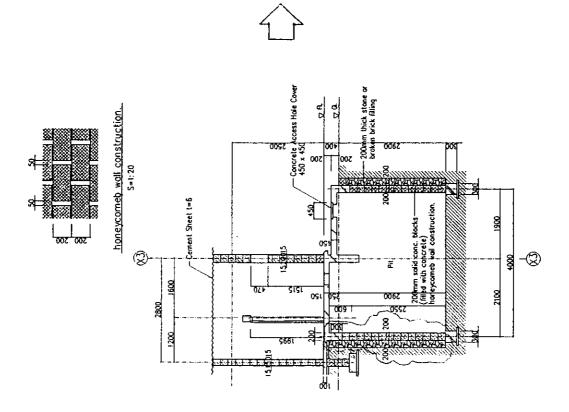


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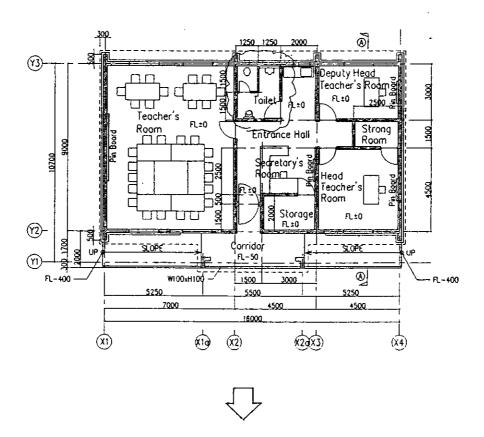


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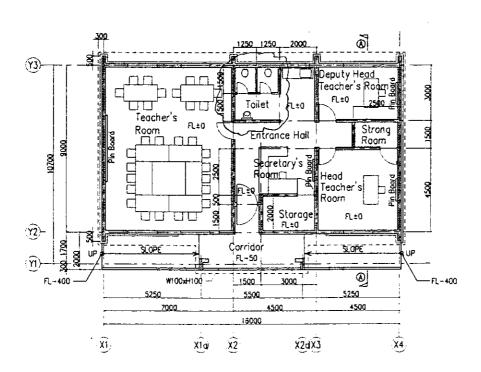


Appendix-42

A)







Appendix-43

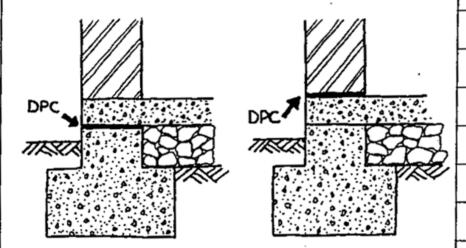
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Description: A damp proof course is a moisture barrier, most often in the form of a sheet of bitumenous felt laid into the wall on the foundation above or below the floor slab to stop moisture rising from the foundation into the walls above

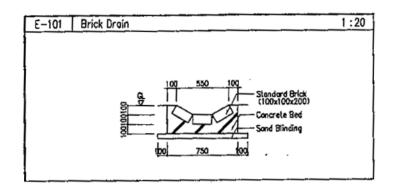
floor level and thus creating a dry wall.



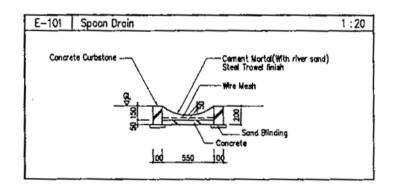
If the damp proof course is missing, a moist, mostly green mould will appear in corners. If the walls are painted you will see that paint and plaster will "bubble" off on the inside.

Air

Continued







K.K

(A)

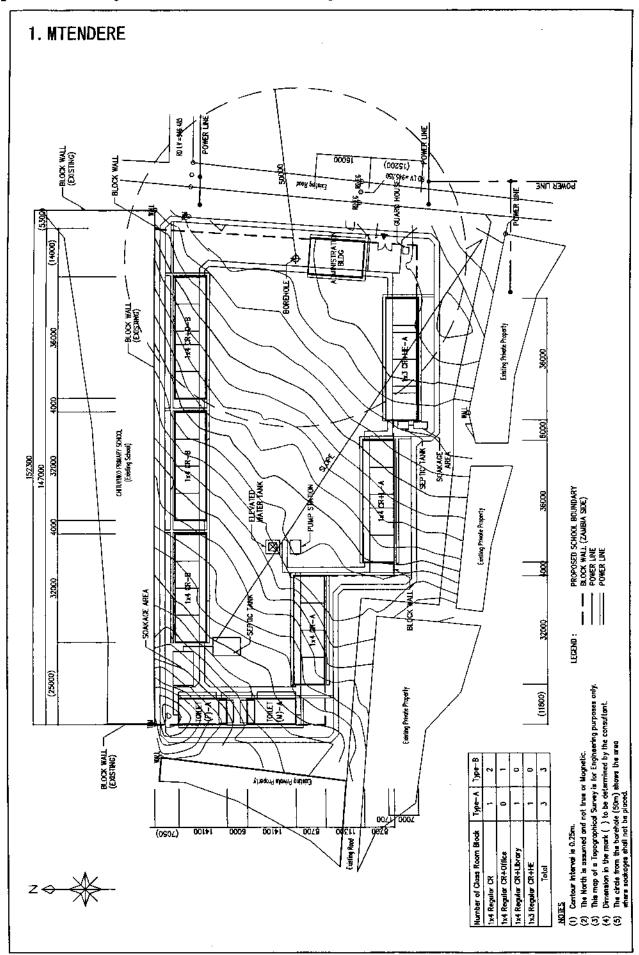


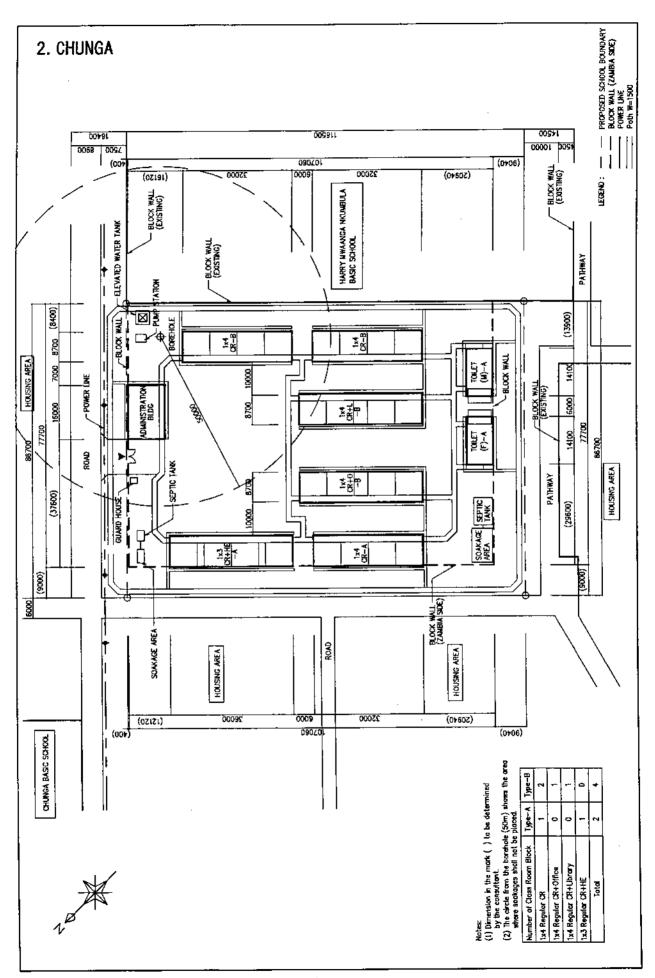
Appendix 5. Cost Estimation Borne by the Recipient Country

			Gate/wall H=2.4m(including foundation)	luding foundation)		Public water cumly	Flactrical leadin	Total
Priority	Site	Wall	Wall	Gate	Total	lead-in	(by ZESCO)	1000
		length (m)	(Kw197,800/m)	(Kw)	(Kw)	(Kw)	(Kw)	(Kw)
1	Jack	223	44,109,400	440,000	44,549,400		19,728,000	64,277,400
2	Chunga	140	27,692,000	440,000	28,132,000		24,381,000	52,513,000
7	Chazanga	176	34,812,800	440,000	35,252,800		28,497,000	63,749,800
8	Chawama/John Howard	208	41,142,400	440,000	41,582,400		2,898,000	44,480,400
10	Chelstone	158	31,252,400	440,000	31,692,400		25,792,000	57,484,400
111	Ng'ombe	219	43,318,200	440,000	43,758,200		64,180,000	107,938,200
I	Phase 1 Total Kw	1,124	222,327,200	2,640,000	224,967,200	0	165,476,000	390,443,200
	US\$				52,318	0	38,483	90,801
3	Marapodi/Mandevu	215	42,527,000	440,000	42,967,000		37,315,000	80,282,000
4	Chilenje South	222	43,911,600	440,000	44,351,600		3,130,000	47,481,600
5	Northmead	222	43,911,600	440,000	44,351,600	302,000	26,165,000	70,818,600
9	Mutendere	153	30,263,400	440,000	30,703,400		21,069,000	51,772,400
6	Kabanana	239	47,274,200	440,000	47,714,200		26,577,000	74,291,200
12	Libala Stage	206	40,746,800	440,000	41,186,800	302,000	8,732,000	50,220,800
I	Phase 2 Total Kw	1,257	248,634,600	2,640,000	251,274,600	604,000	122,988,000	374,866,600
	\$SO				58,436	140	28,602	87,178
	Kw Ground Total	2,381	470,961,800	5,280,000	476,241,800	604,000	288,464,000	765,309,800
	US\$				110,754	140	67,085	177,979

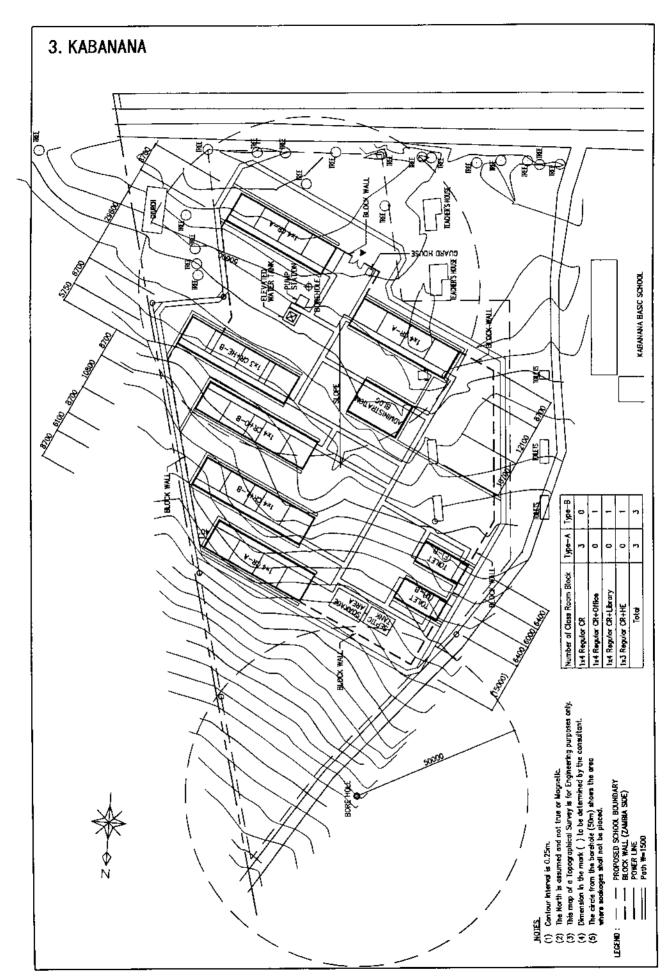
Note: US\$1 = Kw4300

Appendix 6. Layout Plan of Schools at Project Sites

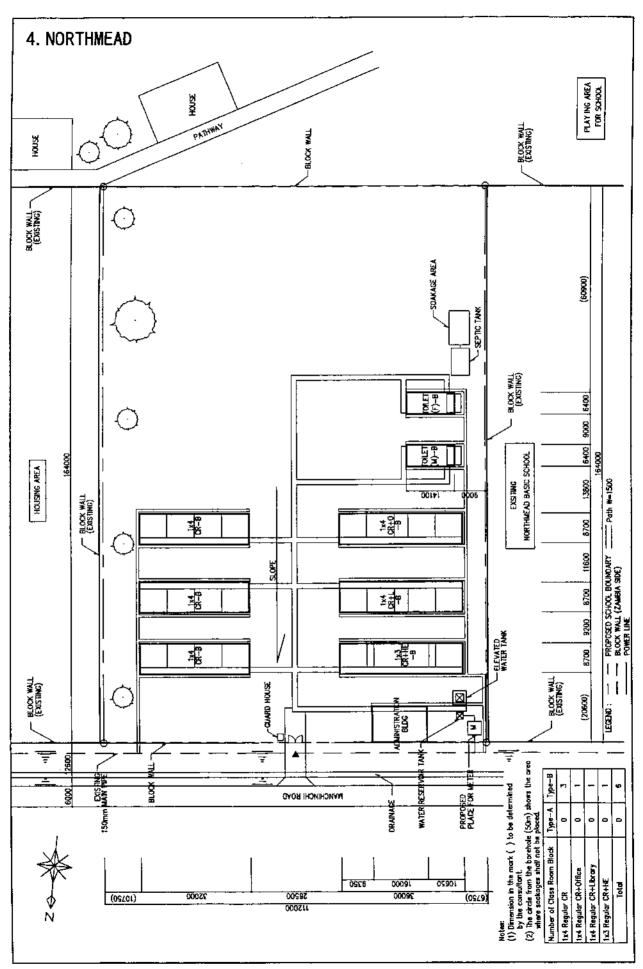




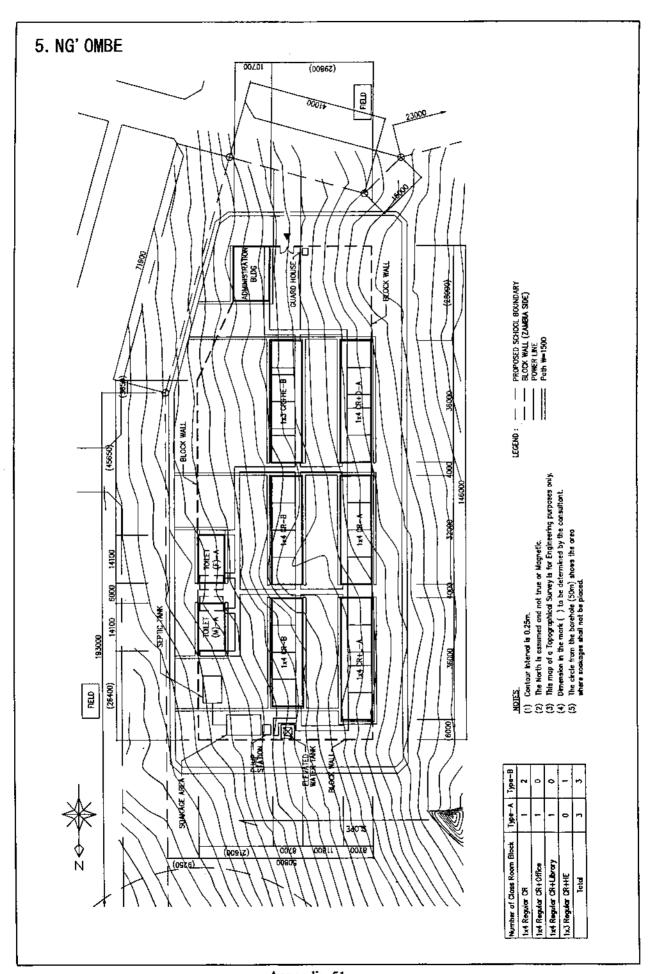
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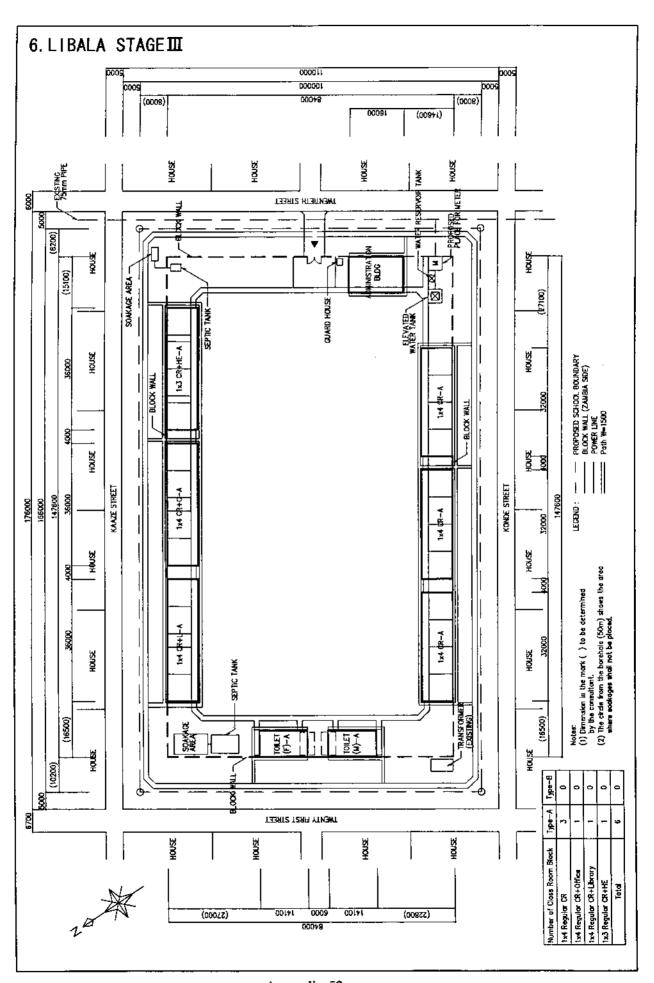
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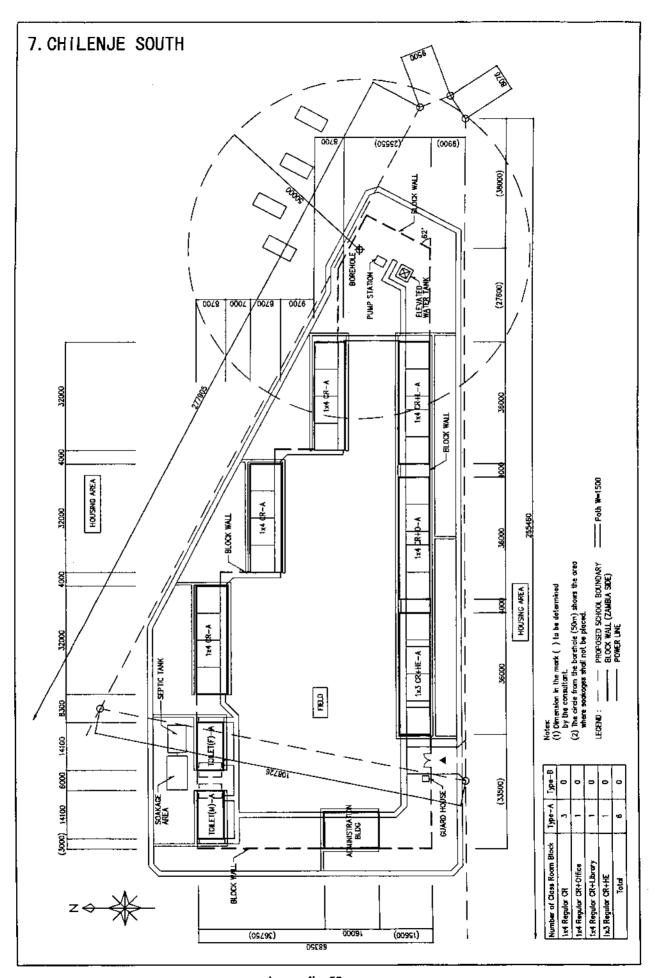
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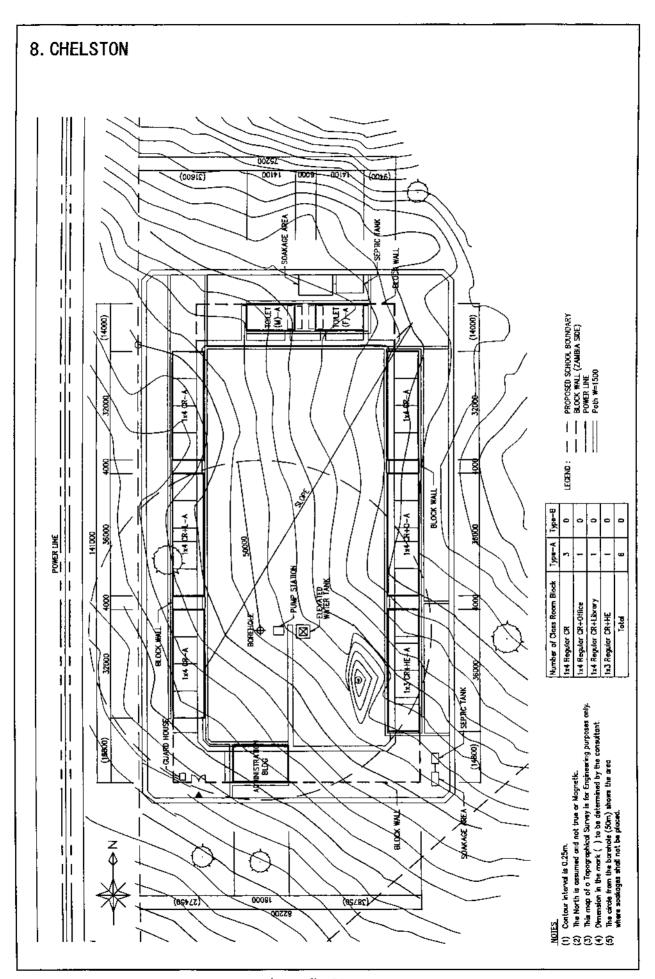
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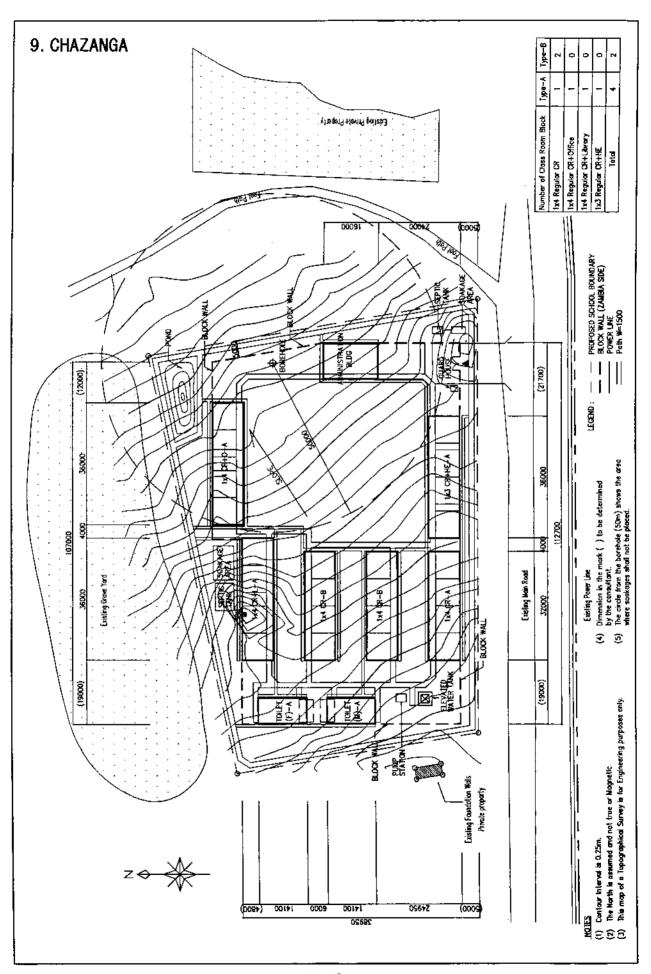
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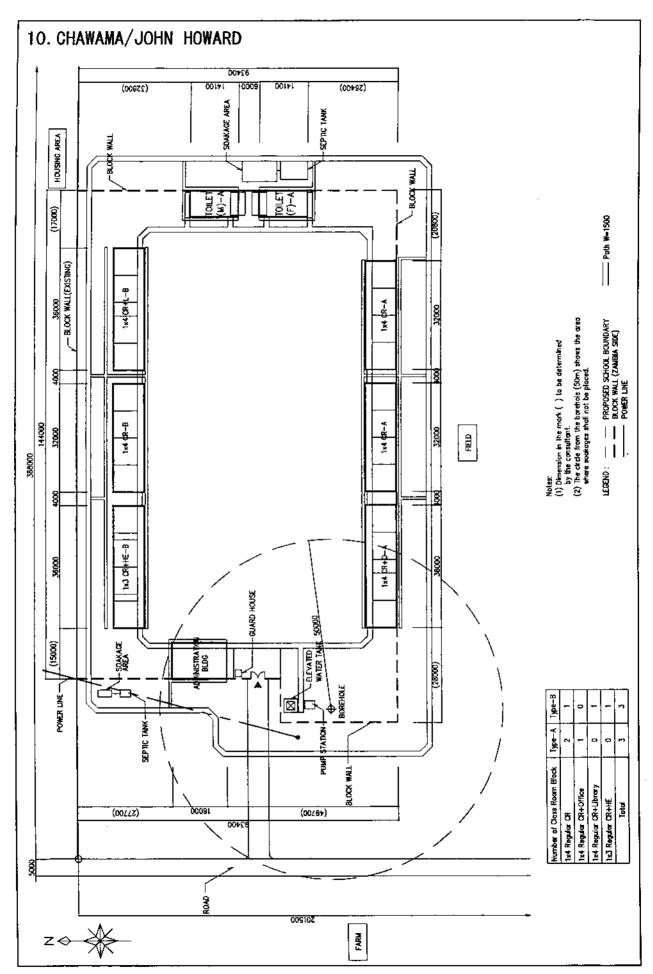
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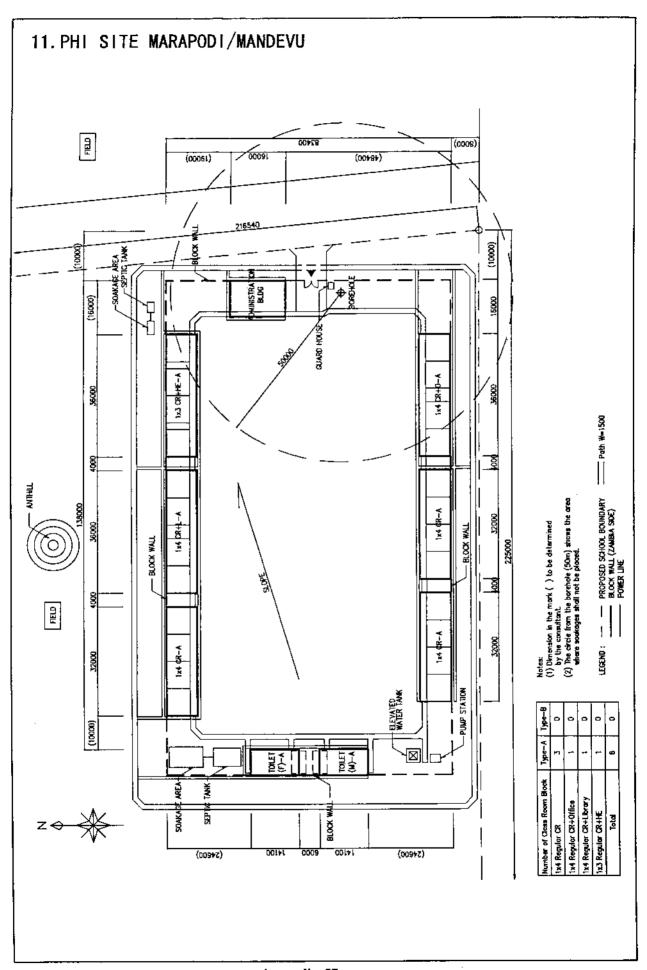
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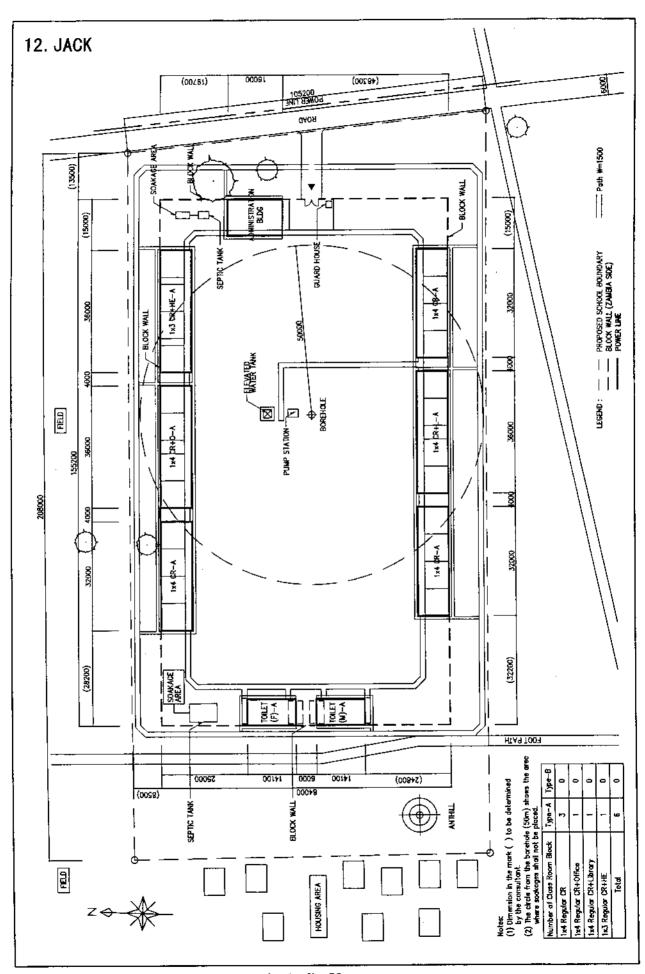
Appendix-55



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Appendix-57



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