



1. Member List of Study Team

Inception Report Explanation and 1st Basic Design Study Team (From 20th February, 2003 to 30th March, 2003)

		oin February, 2003 to 30th F	
(1)	Team Leader	Tomoyuki ONO	Grant Aid Division,
			Economic Cooperation Bureau.
			Ministry of Foreign Affaires
(2)	Technical Advisor	Atushi MORI	Deputy Representative
			Downstream of Mogami River Irrigation
			Project Office
			Ministry of Agriculture, Forestry and
			Fisheries
(3)	Project Coordinator	Motoharu	Fourth Project Management Division.
		WAKABAYASHI	Grant Aid Management Department.
			Japan International Cooperation Agency
(4)	Chief Consultant	Toshikazu KAMBARA	Nippon Koei CO., LTD.
	/ Irrigation Engineering		
	Planning / Water		
	Management Planning		
(5)	Hydrology Planning /	Masaharu FUJISHIMA	Nippon Koei CO., LTD.
	Natural Condition Survey		(Mitsui Consultants CO., LTD.)
(6)	Farming Planning /	Michinori YOSHINO	Nippon Koei CO., LTD.
	Managing Planning		
(7)	Facilities Planning /	Takashi SHIMASAKI	Nippon Koei CO., LTD.
	Construction Planning		
	and Cost Estimation		

2nd Basic Design Study Team

(From 21st July, 2003 to 1st August, 2003)

		J	
(1)	Team Leader	Akira OKUYAMA	Director, Fourth Project Managemen
()			Division, Grant Aid Managemen
			Department,
			Japan International Cooperation Agency
(2)	Technical Advisor	Hideyuki KANAMORI	Senior Adviser,
			Institute for International Cooperation,
			Japan International Cooperation Agency
(3)	Construction and Cost	Itsurou KATOH	Technical Adviser,
	Estimation Survey		Grant Aid Management Department,
			Japan International Cooperation Agency
(4)	Chief Consultant	Toshikazu KAMBARA	Nippon Koei CO., LTD.
	/ Irrigation Engineering		
	Planning / Water		
	Management Planning		
(5)	River Planning	Shigeo OHNUMA	Nippon Koei CO., LTD.
` '			,
(6)	Head Work Planning	Fumiaki MURAKAMI	Nippon Koei CO., LTD.

3rd Basic Design Study Team (From 13th December, 2004 to 24th December, 2004) Takao SHIBUSAWA Team Director

(1) Team Leader	Takao SHIBUSAWA	Team Director, Rural Development and
		Environment Team, Project
		Management Group II, Grant Aid
		Management Department,
		Japan International Cooperation Agency
(2) Chief Consultant / Irrigation Engineering	Toshikazu KAMBARA	Nippon Koei CO., LTD.
Planning		
(3) Farming Planning / Water Management	Takuya NAKAGAWA	Nippon Koei CO., LTD.
Planning / Operation and		
Maintenance Planning		
(4) River Planning	Takatsugu ABE	Nippon Koei CO., LTD.

Technical Advisor (River) Field Survey Team (From 12th January, 2005 to 20th January, 2005)

(1) Technical Advisor	Kouji HOSHINA	Chief Director
		NPO Sabo Publicity Center
(2) Chief Consultant / Irrigation Engineering Planning	Toshikazu KAMBARA (Nippon Koei's own expense)	Nippon Koei CO., LTD.

4th Basic Design Study Team

(From 9th February, 2005 to 10th March, 2005)

(1)	Leader	Kazuo NAKAGAWA	Director General, Grant Aid
			Management Department,
			Japan International Cooperation Agency
(2)	Technical Advisor	Shouzou OOHIRA	Deputy Director General, Rural
()			Infrastructure Department, Tohoku
			Regional Agricultural Administration
			Office
			Ministry of Agriculture, Forestry and
			Fisheries
(3)	Project Coordinator	Shunsuke TAKATOI	Rural Development and Environment
(-)			Team, Project Management Group II,
			Grant Aid Management Department,
			Japan International Cooperation Agency
(4)	Chief Consultant /	Toshikazu KAMBARA	Nippon Koei CO., LTD.
()	Irrigation Engineering		TT -
	Planning		
(5)	Farming Planning /	Takuya NAKAGAWA	Nippon Koei CO., LTD.
(0)	Water Management	-	1. Appoint 120 of 2001, 212.
	Planning / Operation and		
	Maintenance Planning		
(6)	Construction Planning /	Akira KAWAI	Nippon Koei CO., LTD.
(0)	Cost Estimation		,

Draft Final Report Explanation Team

(From 31st August, 2005 to 11th September, 2005)

(1)	Leader	Kyoji MIZUTANI	Resident Representative, Malawi Office,
			Japan International Cooperation Agency
(2)	Chief Consultant / Irrigation Engineering	Toshikazu KAMBARA	Nippon Koei CO., LTD.
	Planning		
(3)	Farming Planning /	Takuya NAKAGAWA	Nippon Koei CO., LTD.
	Water Management		
	Planning / Operation and		
	Maintenance Planning		



2. Study Schedule

Inception Report Explanation and 1st Basic Design Study

(From 20th February, 2003 to 30th March, 2003)

No.	Date	Official Mem	ber	Consultant Membe	er	
	(Day)	Schedule	Lodging	Schedule	Lodging	
		Tokyo - Singapore	On board	Tokyo - Singapore	On board	
1	20 (Thu)		(all members)	(Mr. Kambara)	(Kambara)	
2	21 (Fri)	Singapore - Johannesburg	Lilongwe	Same with the official members	Lilongwe	
	21 (111)	- Lilongwe	(all members)	Same with the official members	(Kambara)	
		Courtesy call to JICA	(wir internetis)		(1241110414)	
		Malawi Office				
3		Lilongwe - Bwanje	Mua	Same with the official members	Mua	
		Site survey	(all members)		(Kambara)	
4		Site survey	Lilongwe	Same with the official members	Lilongwe	
5		Bwanje - Lilongwe Discussion with MOAI	(all members) Lilongwe	Same with the official members	(Kambara) Lilongwe	
3	24 (MOII)	Discussion with MOAI	(all members)	Same with the official members	(Kambara)	
6	25 (Tue)	Discussion with MOAI	Lilongwe	Same with the official members	Lilongwe	
	, í		(all members)		(Kambara)	
7		Discussion with MOAI	Johannes-burg	Same with the official members	Johannesburg	
		Signing of minutes	(all members)		(Kambara)	
		Report to JICA Malawi Office				
		Lilongwe - Johannesburg				
8		Johannesburg - Lusaka	Lusaka	Johannesburg - Lusaka	Lusaka	
		Report to EOJ	(Ono)	Report to EOJ	(Kambara)	
		(Ono)	Plane			
		Johannesburg - Singapore				
		(Mori and	Wakabayashi)			
9	28 (Fri)	Wakabayashi) Lusaka - Johannesburg	Johannesburg	Lusaka - Lilongwe	Lilongwe	
	20 (111)	(Ono)	(Ono)	(Kambara)	(Kambara)	
		Singapore - Tokyo	()	Tokyo - Singapore	Plane	
		(Mori and Wakabayashi)		(Shimasaki, Yoshino and	(Shimasaki,	
				Fujishaima)	Yoshino and	
					Fujishima)	
10	<u>March</u>	Johannesburg - Singapore	On board	Arrangement of vehicle, hotel, etc.	Mua	
10	1 (Sat)	(Ono)	(Ono)	(Kambara)	(all members)	
	, ,			Singapore - Johannesburg -	,	
				Lilongwe (Shimasaki, Yoshino and		
				Fujishima)		
				Lilongwe - Bwanje		
				(All members)		
11	2 (Sun)	Singapore - Tokyo		Site survey	Mua	
	(~)	(Ono)		Bwanje – Lilongwe (all members)	(all members)	
12	3 (Mon)	,		Site survey	Lilongwe	
				Bwanje – Lilongwe (all members)	(all members)	

No.	Date	Official Member	er	Consultant Member	er
	(Day)	Schedule	Lodging	Schedule	Lodging
13	4 (Tue)			Courtesy call to JICA Malawi Office, MOAI, DOI and Lilongwe ADD (all members) Contract negotiation for topographic survey and	Lilongwe (all members)
				geotechnical investigation. (shimasaki)	
14	5 (Wed)			office (all members) Survey on related ministries (fujishima, yoshino)	Lilongwe (yoshino, fujishima) Mua (Kambara, shimasaki)
15	6 (Thu)			Instruction of Sub-contract work	Mua (all members)
16	7 (Fri)			Site survey (all members)	Mua (all members)
17	8 (Sat)			Site survey (all members)	Mua (all members)
18	9 (Sun)			Bwanje – Lilongwe (all members)	Lilongwe (all members)
19	10 (Mon)			Report to and discussion with JICA office, JICA expert, DOI, LADDD (all members) Data collection (fujishima, shimasaki) Preparation of baseline survey (yoshino)	- Ditto -
20	11 (Tue)			Lilongwe-Brantyre (fujishima) Lilongwe-Bwanje (yoshino) Data collection (all members) Baseline survey (yoshino)	Lilongwe (Kambara, Shimasaki) Mua (Yoshino) Brantyre (Fujishima)
21	12 (Wed)			Brantyre-Lilongwe (fujishima) Discussion with Lilongwe ADD (kambara) Data collection (all members) Baseline and other survey(yoshino)	Lilongwe (Kambara, Shimasaki, Fujishima) Mua (Yoshino)
22	13 (Thu)			Courtesy call and report to JICA Malawi Office (Kambara and Fujishima) Discussion with MOAI and Ministry of Finance (kambara) Lilongwe - Johannesburg (Fujishma) Lilongwe - Bwanje (shimazaki) visit to Salima ADD and baseline survey (yoshino)	Lilongwe (Kambara) Mua (Yoshino and Shimazaki) Johannesburg (Fujishima)

No.	Date	Official Mem	ber	Consultant Member		
	(Day)	Schedule	Lodging	Schedule	Lodging	
23	14 (Fri)			Discussion with MOAI (Kambara) Instruction of sub contract work (Shimasaki) visit to Salima ADD and lifu rice research center (Yoshino) Johannesburg - Singapore (Fujishima)	Lilongwe (Kambara) Mua (Yoshino, shimasaki) Plane (Fujishima)	
24	15 (Sat)			Lilongwe-Bwanje (kambara) Visit to Mtakataka EPA (Kambara and Shimasaki) Instruction of sub contract work (Shimasaki) interview to farmers organization (Yoshino) Singapore - Tokyo (Fujishima)	Mua (Kambara and Shimasaki Yoshino)	
25	16 (Sun)			Bwanje - Lilongwe (kambara and shimasaki) Data compilation (all members)	Lilongwe (kambara and shimasaki) Mua (yoshino)	
26	17 (Mon)			Inspection of the follow-up construction works (Kambara) Survey on Cost estimation (Shimasaki) baseline survey and others (Yoshino)	Lilongwe (Kambara and Shimasaki) Mua (Yoshino)	
27	18 (Tue)			Inspection of the follow-up construction works (Kambara) Lilongwe-Bwanje (kambara) Survey on Cost estimation (Shimasaki) baseline survey and others (Yoshino)	Lilongwe (Shimasaki) Mua (Kambara and Yoshino)	
28	19 (Wed)			Inspection of the follow-up construction works (Kambara) Bwanje-Lilongwe (kambara) Lilongwe-Bwanje and site survey (Shimazaki) baseline survey and others (Yoshino)	Mua (Shimzaki and Yoshino) Lilongwe (Kambara)	
29	20 (Thu)			Inspection of the follow-up construction works (Kambara) Bwanje-Lilongwe (shimasaki and yoshino) Data collection and check of processing of survey data (Shimazaki and yoshino)	Lilongwe (all members)	
30	21 (Fri)			Inspection of the follow-up construction works (Kambara) Discussion with LADD and check of processing of survey data (Shimazaki and yoshino)	Lilongwe (all members)	

No.	Date	Official Memb	er	Consultant Member		
	(Day)	Schedule	Lodging	Schedule	Lodging	
31	22 (Sat)			Inspection of the follow-up construction works (Kambara) Check of processing of survey data (Shimazaki and yoshino)	Lilongwe (all members)	
32	23 (Sun)			Summarization of the result of Inspection of the follow-up construction works (Kambara) Summarization of result of the survey (Shimazaki and yoshino)	Lilongwe (all members)	
33	24 (Mon)			Report result of inspection of the follow-up construction works to JICA Malawi Office (Kambara) Check of the product of sub contract work (Shimasaki) Data collection (Yoshioka)		
34	25 (Tue)			Preparation of the inspection report (Kambara) Additional Data collection and summarizing result of the survey (Shimazaki and Yoshino)	Lilongwe (all members)	
35	26 (Wed)			Submission of the inspection report to JICA Malawi Office (Kambara) Courtesy call to JICA Malawi Office, MOAI, DOI and Lilongwe ADD (Shimazaki and Yoshino)	Lilongwe (all members)	
	27 (Thu)			Lilongwe - Johannesburg (Kambara and Shimazaki) Data compilation (Yoshino)	Johannesburg (Kambara and Shimasaki) Lilongwe (Yoshino)	
	28 (Fri)			Data collection (Kambara and Shimasaki) Lilongwe - Johannesburg (Yoshino)	Johannesburg (all members)	
	29 (Sat)			Johannesburg - Singapore	On board (all members)	
39	30 (Sun)			Singapore - Narita		

Note:

: Embassy of Japan 1. EOJ

: Ministry of Agriculture and Irrigation 2. MOAI : Mr. Tomonori ONO (Team Leader) 3. Official member

: Mr. Atsumi MORI (Technical Advisor) : Mr. Motoharu WAKABAYASHI

4. Consultant member : Mr. Toshikazu KAMBARA

(Chief Consultant / Irrigation Engineering Planning /

Water Management Planning)

: Mr. Masaharu FUJISHIMA (Hydrology Planning / National Conditioning Survey) : Mr. Michinori YOSHINO (Farm Planning / Managing Planning)

: Mr. Takashi SHIMASAKI

(Facilities Planning / Construction Planning and Cost Estimation)

5. Mr. Kambara's assignment from March 16 to 26 (11days) is for the inspection works of the construction works under follow-up cooperation by JICA.

2nd Basic Design Study

(From 21st July, 2003 to 1st August, 2003)

No.	day	date		Schedule			
			Offi	cial	Con	sultant	STAY
			1	2	3	4	
1	7/21	MON	assigned to another		ore(SQ 997 12:00-1		
			survey in Malawi	- 1			
2	7/22	TUE	assigned to another			12:40) Courtesy call	1234Lilon
			survey in Malawi		id Ministry of Agr ih Irrigation Depart	iculture, Discussion	gwe
3	7/23	WED	assigned to another	Discussion w		Move to the Project	1234Bwa
			survey in Malawi	Department and	Lilongwe ADD,	site,Site survey	nje Valley
				Move to the	Project site,		
4	7/24	THU		Site survey		Site survey	1234Bwa
							nje Valley
5	7/25	FRI		Site survey		Site survey	1234Bwa
6	7/26	SAT		Site survey		Site survey	nje Valley 123Lilong
				2202 242 129		2332 242 . 5	we4Bwanje
7	7/27	SAN	Move to	Lilongwe, internal	meeting	Site survey, Move	1234Lilon
						to Lilongwe	gwe
8	7/28	MON	Discussion with	rrigation Departme	nt and Lilongwe	Report to JICA	123Lilong
				ADD		office	we4Johanesb
						Lilongwe-	urg
						Johanesburg(SA171 13:35-16:05)	
9	7/29	TUE	Discussion with	Irrigation Departm	ent, Signing of	Johanessburg-	123Johanes
			Minutes, Report to JICA office			Singapore(SQ405	burg
			Lilongwe-Johanesburg(SA171 13:35-16:05)		14:15-06:35)		
10	7/30	WED	Johanessburg-Lusaka(SA62 09:05-11:05) Report to		Singapore-	123Lusaka	
			Embassy of Japan		Narita(SQ12 09:45-		
11	7/31	THU	Lusaka-Ioha	nnnesburrg(SA69 0	7:20-09:25)	17:35)	
''	// 51			-Singapore(SQ405			
12	8/1	FRI	Singapore	e-Narita(SQ12 09:4	5-17:35)	-	
	•	•					

①Technical Adviser (Dr.Kanamori)

②Team leader(Mr.Okuyama), Construction and Cost Estimate survey(Mr.Kato)

³Chief Consultant (Mr.Kambara)

⁽Mr. Onuma) and Head Work Planning (Mr. Murakami)

3rd Basic Design Study

(From 13th December, 2004 to 24th December, 2004)

No.	Date	Day	Team Leader (Mr. Shibusawa)	Chief Consultant/Irrigation & Civil Engineering Planning (Mr. Kambara)	Farming Planning/Water Management Planning/O&M Planning (Mr. Nakagawa)	River Planning (Mr. Abe)		
1	Dec. 13	Mon	Tokyo - Hong Kong, Hong Kong -					
2	Dec. 14	Tue	Johannesburg - Lilongwe Courtesy call to JICA Malawi Office Stay: Lilongwe)					
3	Dec. 15	Wed	8:00 Coutesy call to Director of DOI 3:00 Coutesy call to principal secretary of MOA 10:00 Coutesy call to Lilongwe ADD and kick off meeting PM: Move to Bwanje 16:00 Discussion with PM, AEDO, JOCV (Stav: Lilongwe)					
4	Dec. 16	Thu	10:00 meeting with TA PM: Site survey (checking of river bank, (Stay: Bwanje Valley)	new river training work)	10:00 meeting with TA 13:00 meeting with farmers cooperative 14:30 workshop with farmers in BC1 area (stay: Bwanje Valley)	10:00 meeting with TA PM: Site survey (checking of river bank, new river training work) (Stay: Bwanje Valley)		
5	Dec. 17	Fri	Site Survey at diversion point of new river training work (Stay: Bwanje Valley)		10:00 workshop with farmers in BC3 area 14:30 workshop with farmers in BC2 area (Stay: Bwanje Valley)	Site Survey at diversion point of new river training work (Stay: Bwanje Valley)		
6	Dec. 18	Sat	Site survey of Bwanje Valley System (Stay: Bwanje Valley)	Site survey of present condition of river course (Stay: Bwanje Valley)	Site survey of Bwanje Valley System (Stay: Bwanje Valley)	Site survey of present condition of river course (Stay: Bwanje Valley)		
7	Dec. 19	Sun	AM: Site survey of Dedza hill, Move (bw PM: Preparation of draft Technical Discu (Stay: Lilongwe)		AM: Move (bwanje - Lilongwe) PM: Preparation of draft Technical Discussion Record (Stay: Lilongwe)	AM: Site survey of Dedza hill, Move (bwanje - Lilongwe) PM: Preparation of draft Technical Discussion Record (Stay: Lilongwe)		
8	Dec. 20	Mon	Discussion with Lilongwe ADD about To TDR (Stay: Lilongwe)	echnical Discussion Report, and Signing of	Move (Lilongwe-bwanje) meeting with PM, AEDO, JOCV additional interview to farmers (Stay: Bwanje Valley)	Discussion with Lilongwe ADD about Technical Discussion Report, and Signing of TDR (Stay: Lilongwe)		
9	Dec. 21	Tue	AM: report at JICA Malawi office PM: Lilongwe - Lusaka (Stay:Lusaka)		AM: Move (Bwanje - Lilongwe) PM: Lilongwe - Lusaka (Stay: Lusaka)	AM: report at JICA Malawi office PM: Lilongwe - Lusaka (Stay:Lusaka)		
10	Dec. 22	Wed	AM: Internal Meeting PM: Report to Embassy of Japan (Stay: Lusaka)					
11	Dec. 23	Thu	Lusaka - Johannesburg -					
12	Dec. 24	Fri	- Hong Kong - Tokyo					

Technical Advisor (River) Field Survey

(From 12th January, 2005 to 20th January, 2005)

Date	Day	Technical Advisor (Mr. Hoshina; Chief Director, NPO Sabo Publicity Center)	Chief Consultant/Irrigation & Civil Engineering Planning (Mr. Kambara)
Jan-05	Wed	Tokyo - Hong Kong, Hong Kong -	Tokyo - Hong Kong, Hong Kong -
Jan-05	Thu	- Johannesburg - Lilongwe Courtesy call to JICA Malawi Office (Stay: Lilongwe)	- Johannesburg - Lilongwe Courtesy call to JICA Malawi Office (Stay: Lilongwe)
Jan-05	Fri	AM: Move (Lilongwe - Bwanje Valley) PM: Site Survey (Stay: Bwanje Valley)	AM: Move (Lilongwe - Bwanje Valley) PM: Site Survey (Stay: Bwanje Valley)
Jan-05	Sat	Site Survey (Stay: Bwanje Valley)	Site Survey (Stay: Bwanje Valley)
Jan-05	Sun	AM: Site Survey PM: Move (Lilongwe - Bwanje Valley) (Stay: Lilongwe)	AM: Site Survey PM: Move (Lilongwe - Bwanje Valley) (Stay: Lilongwe)
Jan-05	Mon	AM: Report to JICA Malawi Office PM: Lilongwe - Johannesburg (Stay: Johannesburg)	AM: Report to JICA Malawi Office PM: data collection (Stay: Lilongwe)
Jan-05	Tue	Johannesburg -	AM: data collection PM: Lilongwe - Johannesburg (Stay: Johannesburg)
Jan-05	Wed	- Hong Kong - Narita	Johannesburg -
Jan-05	Thu		- Hong Kong - Narita

4th Basic Design Study

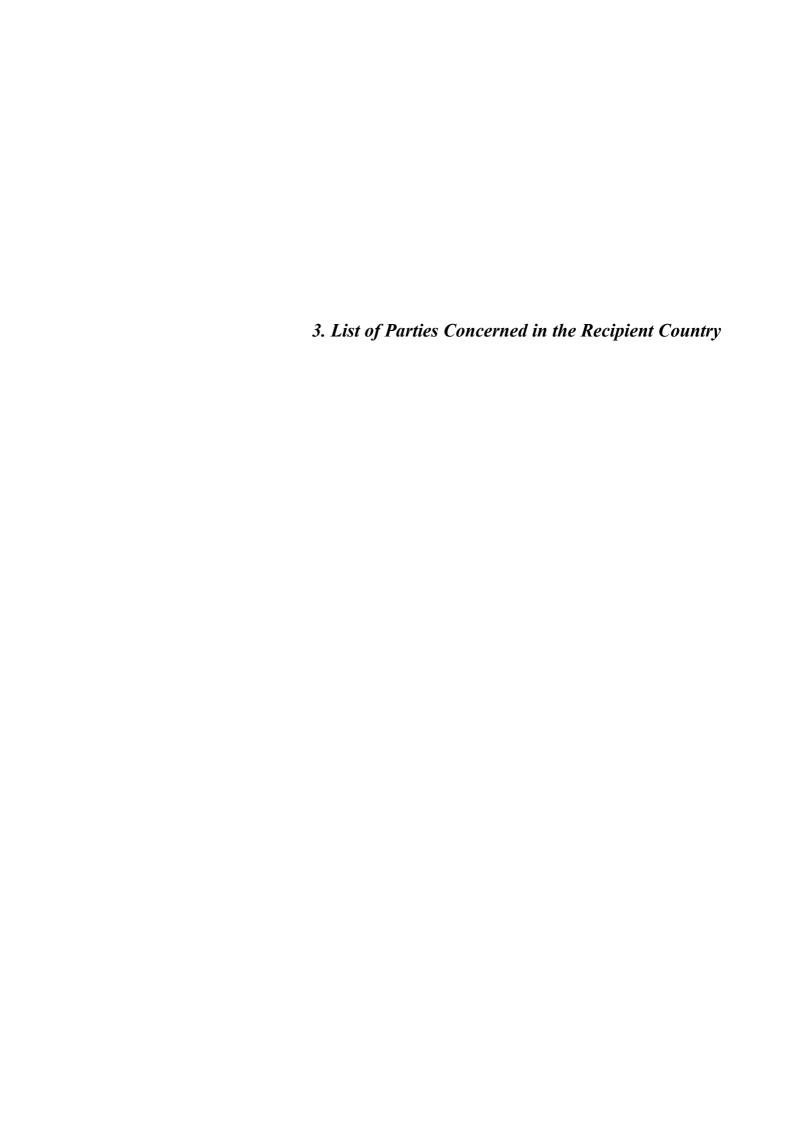
(From 9th February, 2005 to 10th March,2005)

			00.1M-1(M-M1	Cliffo - k - Wind - C - B Cliff	r i N i W i W	C N C .	
No.	Date	Day	Official Member (Mr. Nakagawa, Mr. Oohira, Mr. Takatoi)	Chief Consultant/Irrigation & Civil Engineering Planning (Mr. Kambara)	Farming Planning/Water Management Planning/O&M Planning (Mr. Nakagawa)	Construction Planning/Cost Estimation (Mr. Kawai)	
1	Feb. 9	Wed	Tokyo - Singapore				
2	Feb. 10	Thu	Singapore - Johannesburg - Lilongwe Courtey call to JiCA Malawi Office, MOA (Stay: Lilongwe)				
3	Feb. 11	Fri	AMC Cutesy call to DOI, kick off meeting with Lilongwe ADO MMC More (Lilongwe - Bwanje Valley), Site survey Stay: Lilongwe)				
4	Feb. 12	Sat	AM: Site survey PM: Meeting with DC, TA, PM, AEDO, RDP and executive member of farmers cooperative (Stay: Bwangle Valley)				
5	Feb. 13	Sun	AM: More (Bwanje Valley - Dedza - Lilongwe) M: Internal meeting Stay: Lilongwe)				
6	Feb. 14	Mon	AM: Discussion on MD with Lilongwe ADD, report to JICA PM: Signing of MD in MOA (Stay: Lilongwe)	AM: Discussion on MD with Lilongwe ADD PM: Signing of MD in MOA (Stay: Lilongwe)	Survey on budget, institution, activities of other donors, policy of irrigation O&M, land tenure system and so on. (Stay: Lilongwe)	Survey on cost estimate (Stay:Lilongwe)	
7	Feb. 15	Tue	AM: inspection of other irrigatio project PM: Lilongwe - Lusaka (Stay: Lusaka)	AM: data collection PM: Lilongwe - Lusaka (Stay: Lusaka)	-Ditto-	-Ditto-	
8	Feb. 16	Wed	10:30 Report to Embassy of Japan (Stay: Lusaka)		-Ditto-	-Ditto-	
9	Feb. 17	Thu	Lusaka - Johannesburg -	Data reviewing (Stay: Lusaka)	-Ditto-	-Ditto-	
10	Feb. 18	Fri	- Singapore - Narita	Lusaka - Lilongwe Internal Meeting	-Ditto- internal meeting	-Ditto- internal meeting	
11	Feb. 19	Sat		(Stay: Lilongwe) AM: Move (Lilongwe - Bwanje Valley) PM: inspection of land levelling (Stay: Bwanje Valley)	(Stay: Lilongwe) AM: Move (Lilongwe - Bwanje Valley) PM: meeting with PM and JOCV (Stay: Bwanje Valley)	(Stay: Lilongwe) AM: Move (Lilongwe - Bwanje Valley) PM: inspection of land levelling	
12	Feb. 20	Sun		AM: site inspection PM: Move (Bwanje Valley - Lilongwe) (Stay: Lilongwe)	Data reviewing (Stay: Bwanje Valley)	(Stay: Bwanje Valley) AM: site inspection PM: Move (Bwanje Valley - Lilongwe) (Stay: Lilongwe)	
13	Feb. 21	Mon		AM: Report to JICA office Discussion on measuring survey Discussion with LADD PM: Move (Lilongwe - Bwanje Valley) (Stay: Bwanje Valley)	Data collection (water fee collection system, financial management condition, cropping intensity, actual irrigation rate, land reallocation and oters) (Stay:Bwanje Valley)	AM: Report to JICA office Discussion on measuring survey Discussion with LADD PM: Move (Lilongwe - Bwanje Valley) (Stay: Bwanje Valley)	
14	Feb. 22	Tue		Headwork measuring work (Stay: Bwanje Valley)	-Ditto- Explanation meeting to farmers in BC3 (Stay:Bwanje Valley)	Measuring work of land leveling (Stay: Bwanje Valley)	
15	Feb. 23	Wed		-Ditto-	Explanation meeting to farmers in BC1 and 2 (Stay:Bwanje Valley)	Site inspection of alignment of new main canal (Stay: Bwanje Valley)	
16	Feb. 24	Thu		-Ditto-	AM: Meeting with DC PM: Meeting with land allocation committee members (Stay:Bwanje Valley)	Survey on construction plan (Stay: Bwanje Valley)	
17	Feb. 25	Fri		-Ditto-	Data collection (water fee collection system, financial management condition, cropping intensity, actual irrigation rate, land reallocation) (Stay:Bwanje Valley)	Survey on present land leveling (Stay: Bwanje Valley)	
18	Feb. 26	Sat		Survey on present condition of river course (Stay: Bwanje Valley)	-Ditto-	Survey on present condition of river course (Stay: Bwanje Valley)	
19	Feb. 27	Sun		Examination of design (Stay: Bwanje Valley)	-Ditto-	Survey on water management and O&M of irrigation facilities (Stay: Bwanje Valley)	
20	Feb. 28	Mon		-Ditto-	-Ditto-	AM: Move (Bwanje Valley - Brantyre) PM: Cost estimate survey (Stav:Lilongwe)	
21	Mar. 1	Tue		-Ditto-	-Ditto-	PM: Move (Brantyre - Bwanje Valley (Stay: Bwanje Valley)	
22	Mar. 2	Wed		-Ditto-	Inspection of other case of land allocation (Stay: Bwanje Valley)	discussion with JICA expert on land levelling and site inspection (Stay: Bwanje Valley)	
23	Mar. 3	Thu		AM: Move (Bwanje Valley - Lilongwe) PM: internal meeting (Stay: Lilongwe)			
24	Mar. 4	Fri		Explanation and discussion of the result of the survey to LADD (Stay: Lilongwe)	Explanation and discussion of the result of the survey to LADD, additional data collection (Stay: Lilongwe)	Explanation and discussion of the result of the survey to LADD, additional data collection (Stay: Lilongwe)	
25	Mar. 5	Sat		preparation of the report (Stay: Lilongwe)	-ditto-		
26	Mar. 6	Sun		-Ditto-		Lilongwe - Johannesburg (Stay: Johannesburg)	
27	Mar. 7	Mon		Discussion with LADD Report the results to JICA malawi office (Stay: Lilongwe)	Cost estimate survey (Stay: Johannesburg)		
28	Mar. 8	Tue	/	Lilongwe - Johannesburg (Stay: Johannesburg) -ditto-			
29	Mar. 9	Wed	1	Johannesburg -			
30	Mar. 10	Thu	1	- Singapore - Tokyo			

Draft Final Report Explanation

(From 31st August, 2005 to 11th September, 2005)

No.	Date	Day	Leader (Mr. Mizutani)	Chief Consultant/Irrigation & Civil Engineering Planning (Mr. Kambara)	Farming Planning/Water Management Planning/O&M Planning (Mr. Nakagawa)
1	Aug. 31	Wed		Tokyo - Singapore	
2	Sep. 1	Thu	meeting with consultant members Courtesy call to MOAFS	Singapore - Johannesburg - Lilongwe Courtesy call to JICA Malawi Office, MOAFS (Stay: Lilongwe)	
3	Sep. 2	Fri	AM: Courtesy call to DOI, Meeting on DBD with Lilongwe ADD PM: Coutesy call to MOIWDMeeting with DEA on EIA issue	AM: Courtesy call to DOI, Meeting on DBD with Lilongwe ADD PM: Coutesy call to MOIWDMeeting with DEA on EIA issue Move (Lilongwe to Bwanje Valley) (Stay: Bwanje Valley)	
4	Sep. 3	Sat	AM: Explanation of DBD to TA and farmers cooperative Explanation and instruction of setting up of gabion PM: Explanation of DBD to farmers in Mchanja GV represent by assistant resident representative of JICA Malawi Office (Stav: Bwanje Valley)		AM: Explanation of DBD to TA and farmers cooperative PM: Explanation of DBD to farmers in Mchanja GV (Stay: Bwanje Valley)
5	Sep. 4	Sun	AM: Explanation of DBD to farmers in Mthembanji GV Move (Bwanje valley to Lilongwe) represent by assistant resident representative of JICA Malawi Office	Explanation and instruction of setting up of gabion Move (Bwanje valley to Lilongwe) (Stay: Lilongwe)	AM: Explanation of DBD to farmers in Mthembanji GV PM: Explanation of DBD to farmers in Bwanari and Kafulama GV Move (Bwanje Valley to Lilongwe) (Stay: Lilongwe)
6	Sep. 5	Mon	PM: discussion with DEA on EIA matteres	AM: material review PM: discussion with DEA on EIA matteres (Stay: Lilongwe)	
7	Sep. 6	Tue	meeting with consultant members	AM: Discussion on DBD with Lilongwe ADD PM: Meeting with DEA on EIA issue, meeting in JICA Malawi office (Stay: Lilongwe)	
8	Sep. 7	Wed	AM: signing of MD with MOAFS and MOIWD PM: discussion with consultant members	AM: signing of MD with MOAFS and MOIWD PM: Report to JICA (Stay: Lilongwe)	Explanation on DBD to DC MD signing material check (Stay: Lilongwe)
9	Sep. 8	Thu	Lilongwe-Lusaka PM: Courtesy call to EOJ and explanation of DBD and MD represent by assistant resident representative of JICA Malawi Office (Stay:Lusaka)	Lilongwe-Lusaka PM: Courtesy call to EOJ and explanation of DBD and MD (Stay:Lusaka)	
10	Sep. 9	Fri	AM: material check PM: Lusaka - Johannesburg represent by assistant resident representative of JICA Malawi Office	AM: preparation of report PM: Lusaka - Johannesburg (Stay:Johannesburg)	
11	Sep. 10	Sat		Johannesburg - Singapore	
12	Sep. 11	Sun		Singapore - Tokyo	



List of Parties Concerned in the Recipient Countries 3.

NO.	NAME	POSITION
	ry of Agriculture and Irrigation (a	
1.	Andrina F. Mchiela	Principle Secretary
2.	Ellos E. Lodzeni	Principle Secretary for Finance and Administration
3.	S. M. Chimphonda	Deputy Director, Dept. of Agriculture and Extension Service
4.	Micheck Lonowe	Principal Economist
5.	Joan Charlira	Administrative Assistant, Agro-Economic Survey
6.	Dr. C.P.Mzembe	Controller, Dept. of Irrigation
7.	A. T. Khonje	Deputy Cotroller, Dept. of Irrigation
8.	Jane Tawina Kopa	Irrigation Officer, Dept. of Irrigation
9.	R.C.Makasa	Irrigation Officer, Dept. of Irrigation
10.	Excello Zidana	Agricultural Radio Programme Officer, Agricultural Communication Branch
11.	W.R.Kapindu	Senior Model Unit Operation Officer, Agricultural Communication Branch
12.	Dan.L.Yona	Chief Agricultural Commercial Officer Agricultural Communication Branch
13.	T. H. Mpezeni	Irrigation Officer, Lilongwe ADD
14.	N.T.W. Mataka	Deputy Programme Manager Lilongwe ADD
15.	M. A. Mgomezulu	Chief Extension Officer, Lilongwe ADD
16.	E. E. Thawani	Land Resources Conservation Officer Lilongwe ADD
17.	Pita Kulunga	Farm Business Management Officer, Lilongwe ADD
18.	Kavisanga Munyeriembe	Evaluation Officer Lilongwe ADD
19.	Wavisanga	Evaluation Officer Lilongwe ADD
20.	M.K.Mwamadi	Crops Officer Lilongwe ADD
21.	Mahata Kangbmbe	Land Resources Conservation Officer, Lilongwe ADD
22.	Mlenga	Land Resources Conservation Officer, Lilongwe ADD
23.	Dr.J.Nkhoma	Animal Health Officer, Lilongwe ADD
24.	Charles G.Mwalabu	Irrigation Officer, Salima ADD
25.		Dedza RDP
	A.B.B.C.Cheyo	
26.	E.Y.K.Phili	Project Manager, Bwanje Valley Irrigation System Project O&M Office
27.	K.B.Banda	Agriculture Extension Development Coordinator, Mtakataka EPA
28.	H.G.Heazi	Agriculture Extension Development Coordinator, Mtakataka EPA
29.	B.J.Ngwemba	Agriculture Extension Development Officer, Mtakataka EPA
30.	M.G.A.Mafosha	Agriculture Extension Development Officer, Mtakataka EPA
31.	W.L.Singano	Assistant Irrigation Officer Goromoti EPA
32.	W.A.Kanyika	Commodity Team Leader Lifuwe Rice Research Center
_	ry of Agriculture, Irrigation and I	
1	C. J. Matabwa	Acting Secretary
2	A.T. Khonje	Deputy Controller of Dept. of Irrigation
3	Sandram C.Y. Maweru	Deputy Controller of Dept. of Irrigation (Training)
4	P. C. C. Negele	Irrigation Officer, Dept. of Irrigation
5	C.Mayata	Controller of Agricultural Planning Services
6	L C. Kagonegone	Controller of Human Resources
7	C. M Kanyenda	Director of Agriculture Extension Services
8	K. M. Chavula	Director of Crop Production
9	D. Kalhingwe	Economist
10	W. U. L. Dita	Deputy Director of Animal Health and Livestock Development
11	J. J. Mussa	Deputy Director of Land Resource
12	E. T. Saka	Accountant
13	N. T. W. Mataka	Deputy Programme Manager, Lilongwe ADD
14	T. Beza	Divisional Irrigation Officer, Lilongwe ADD
15	E. Y. K. Phiri	Project Manager, Bwanje Valley Irrigation System Project O&M Office
16	B. J. Ngwemba	Extension Officer (BC1), Bwanje Valley Irrigation System Project O&M Office
17	W. L. Singano	Extension Officer (BC2), Bwanje Valley Irrigation System Project
18	M. G. A. Mafosha	O&M Office Extension Officer (BC3), Bwanje Valley Irrigation System Project
19	K. B. Banda	O&M Office Extension Officer, Bwanje Valley Irrigation System Project O&M
20	H. G. Heazi	Office Extension Officer, Bwanje Valley Irrigation System Project O&M Office
Miniet	ry of Agriculture (at 3 rd and 4 th Bl	
141111131	Joing iculture (at 5 and 4 Di	District Control of the Control of t

1 J. J. Matope

Principal Secretary for Irrigation and Food Security

2 Andrew T. Daudi Secretary for Agriculture

NO.	NAME	POSITION
3	Sandram C.Y. Maweru	Director of Irrigation Services, Dep. of Irrigation
4	A.T. Khonje	Deputy Director of Irrigation Sevices, Dep. of Irrigation
5	C.K. Jana	Senior Irrigation Officer, Dep. of Irrigation
6	Kawere T.D.	Human Resource Management Officer, Human Resource Management
Ü	nawore 1.5.	Unit, Dep. of Irrigation
7	Munyenyembe	Principal Accountant, Account Unit, Dep. of Irrigation
8	F.L.Malunga	Senior Irrigation Officer, Dep. of Irrigation
9	Mike Alfred Makuti	Controller of Human Resource Management and Development
10	Misheck Coco Longwe	Assistant Chief Economist, Planning Division
11	H.C.Y.Gondwe	Assistant Chief Economist, Planning Division
12	Mphatso Janet Nyekanyeka	Assistant Chief Economist, Planning Division
13	Timothy Zedi Chunga	Programme Manager, Lilongwe ADD
14	Stella Kankwanba	Deputy Programme Manager, Lilongwe ADD
15	A.A.Kampari	Desk Officer, Lilongwe ADD
16	C. C. Maguza Tembo	Chief Agricultural Extention Officer, Lilongwe ADD
17	B.V.L. Banda	Agricultural Communication Officer, Lilongwe ADD (at 3 rd BD Study)
10	A CM Marrows	Deputy Programme Manager, Lilongwe ADD(at 4 th BD Study)
18	A.C.M. Msowoya	Principal Irrigation Officer, Lilongwe ADD
19 20	D. Kalhingwe S. Gawamadzi	Principal Agricultural Officer, Lilongwe ADD
20		Planning Officer, Planning Section, Lilongwe ADD Crops Officer, Lilongwe ADD
22	A.W.Phiri P.N. Moyo	Senior Irrigation Officer, Lilongwe ADD
23	Yana	Chief Agricultural Extention Officer, Lilongwe ADD
23 24	E. Chima	Extention Officer, Lilongwe ADD
25	R.L. Khunga	Extension Officer, Lilongwe ADD Extension Officer, Lilongwe ADD
26	C.D.E.Mittawa	Acting District Agricultural Development Officer, Dedza RDP
27	W.G.Nbhcowi	District Agricultural Officer, Dedza RDP
28	M.S.K.B Banda	Agricultural Extension Development Coordinator, Mtakataka EPA
29	H. NolHelazi	Agricultural Extension Development Coordinator, Makataka El A Agricultural Extension Development Coordinator, Golomoti EPA
30	E. Y. K. Phiri	Project Manager, Bwanje Valley Irrigation System Project O&M Office
31	B. J. Ngwemba	Agriculture Extension Development Officer (BC1), Bwanje Valley
-	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Irrigation System Project O&M Office (at 3 rd BD Study)
32	L.R.W.Lingani	Agriculture Extension Development Officer (BC1), Bwanje Valley
		Irrigation System Project O&M Office (at 4 th BD Study)
33	E. M. Sautseni	Agriculture Extension Development Officer (BC2), Bwanje Valley
2.4	M.C. A. Mafasha	Irrigation System Project O&M Office
34	M. G. A. Mafosha	Agriculture Extension Development Officer (BC3), Bwanje Valley Irrigation System Project O&M Office
35	H.I.G Phuka	Scheme Manager, Domasi Irrigation Scheme
	y of Agriculture and Food Security (at	<u> </u>
1	R.P. Mwadiwa	Principal Secretary for Agriculture and Food Security
2	Phiri	Deputy Principal Secretary
3	Zimahrana	Director, Planning Department
4	B.D.S. Mhango	Deputy Director, Planning Department
5	Malumbo K. Gondwe	Economist, Planning Division
6	Chimzimu	Director, Finance and Administration Department
7	Timothy Zedi Chunga	Programme Manager, Lilongwe ADD
8	James L.L. Banda	Deputy Programme Manager, Lilongwe ADD
9	S. Gawamadzi	Planning Officer, Planning Section, Lilongwe ADD
10	F.W. Kuntindi	Financial Controller, Lilongwe ADD
11	A.C.M. Msowoya	Principal Irrigation Officer, Lilongwe ADD
12	P.N. Moyo	Senior Irrigation Engineer, Lilongwe ADD
13	E. Y. K. Phiri	Project Manager, Bwanje Valley Irrigation System Project O&M Office
14	B.J.Siyasiya	Agriculture Extension Development Officer (BC1), Bwanje Valley
1.5	E. M. Sautseni	Irrigation System Project O&M Office Agriculture Extension Development Officer (BC2), Bwanje Valley
15	E. M. Sautseni	Irrigation System Project O&M Office (BC2), Bwanje variey
16	M. G. A. Mafosha	Agriculture Extension Development Officer (BC3), Bwanje Valley
- 0		Irrigation System Project O&M Office
Ministr	y of Water Development (until 4 th BD	Study)
1.	Geoffrey Mamba	Senior Hydrologist, Central Office
2.	P.K.T. Munthali	NTCHEU Water Development
3.	Frank Ngolonke	Assistant hydrologist, DEDZA Water Development
4.	J. Wkhokwe	Director, Meteolorogical Center in Chilika
5.	Adaws Chavnles	Assistant Officer
6.	Green Kuwamawi	Assistant hydrologist, MTAKATAKA Police Air Wing (Meteorological
~	I D. Dhini	station)
7. °	James P. Phiri	Chief Water Chemist, Central Water Laboratory
8.	Sitama	Water Quality Inspector, Central Water Laboratory

NO.	NAME	POSITION
9.	Chileka	Principal Hydrologist, Department of Water Resources
	y of Irrigation and Water Development	(at Draft Final Report Explanation)
1	Grain W.P. Malunga	Principal Secretary
2	Owen M. Kankhuungo	Director of Water Supply and Sanitation
3	Rodson W. Mkwepu Nakanga	Director of Administration and Finance
4 5	Sandram C.Y. Maweru	Director of Irrigation Services, Dept. of Irrigation Chief Irrigation Officer, Dept. of Irrigation
	G. Mwepa y of Environment (at 1st BD Study)	Chief Irrigation Officer, Dept. of Irrigation
1.	y of Environment (at 1 st BD Study) M. Wmikuwa	Environment affairs Dept.
	y of Mines, Natural Resources and Envi	
1	M.K.M Mwanyongo	Assistant Director, Environmental Affairs Department
2	Dr. Kamperewera	Deputy Director, Department of Environmental Affairs Department,
3	Tawonga Mbale	Principal Environmental Officer, Department of Environmental Affairs
2	Tuvionga ivionio	Department
4	Juno Sibale	Environmental Officer, Department of Environmental Affairs Department,
Ministr	y of Transport and Public Works	-
1.	Nicholas D. Mwafulirwa	Principal Meteorologist, Malawi Meteorological Dept.
2.	John Ndola	Civil Engineering Dept.
3.	Dr. Chrispine Ngweua	Geologist/Seismiologist, Geological Survey Dept.
4.	B. K. Matanga	Chief Material Officer, Central Materials Laboratory
5.	Mesheck Zimba	Technical Officer, Central Materials Laboratory
6.	Top Ian Masimbi	Senior Material Technician, Central Materials Laboratory
7.	Stanley Jere	Chief Roads Supervisor, Central Materials Laboratory
Ministr	y of Labor and Vocational Training	
1.	George W. Bello	Principal Labour Officer, Labour Services Dept.
	al Labor Office	
1.	Emmanuel FMK. Manda	District Labour Officer, Central Office
Ministr	y of Lands, Housing and Surveys	
1	F.S.Majankono	Commissioner of Lands
Ministr		at 1 st BD Study)
1.	Ambrose Mzoma	Deputy Director (Debt & Aid), Debt and Aid Management Dept.
2.	Zimpita	Tax Policy Analysts, Tax Policy Unit
3.	Makamba	Tax Reform Officer
Ministr	y of Economic Planning and Developme	
1	R. Mzonde	Deputy Director of Planning
	y of Finance (at 4 th BD Study)	
1	Manda	Budget Section
2	W.F. Nyando	Assistant Budget Officer, Budget Section
	al Road Authority	
1.	Okendeni Kondowe	Project Engineer, Planning Dept.
_	Revenue Authority	
1.	L. G. Mwanandi	Revenue Officer, Surtax Division
	al Construction Industry Council	
1.		
	Godfrey Limwame	Assistant Registration Officer
	Godfrey Limwame ssion for Disaster Preparedness	
1.	Godfrey Limwame ssion for Disaster Preparedness James M.K. Chiusiwa	Assistant Registration Officer Chief Relief Officer, Dept. of Disaster Preparedness
1.	Godfrey Limwame ission for Disaster Preparedness James M.K. Chiusiwa al Statistical Office	Chief Relief Officer, Dept. of Disaster Preparedness
1. Nationa	Godfrey Limwame ssion for Disaster Preparedness James M.K. Chiusiwa al Statistical Office Evance Kadongola	
1. Nationa 1 Dedza I	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office
1. Nationa 1 Dedza I	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner
1. Nationa 1 Dedza I 1 2	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto
1. Nations 1 Dedza I 2 3	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner
1. Nationa 1 Dedza I 2 3 Farmer	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto
1. Nations 1 Dedza I 2 3	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing
1. Nationa 1 Dedza I 2 3 Farmer	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited
1. Nationa 1 Dedza I 2 3 Farmer	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing
1. Nations 1 Dedza I 2 3 Farmer 1	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited
1. Nations 1 Dedza I 2 3 Farmer 1 2 3	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing
1. Nations 1 Dedza I 2 3 Farmer 1 2 3 Others	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation
1. Nations 1 Dedza I 2 3 Farmer 1 2 3 Others	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata Dr. M. Kwapata	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation Meteorologist, Bunda Agricultural College, University of Malawi
1. Nations 1 Dedza I 2 3 Farmer 1 2 3 Others	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation Meteorologist, Bunda Agricultural College, University of Malawi Bunda Agricultural College, University of Malawi,
1. Nations 1 Dedza I 2 3 Farmer 1 2 3 Others	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata Dr. M. Kwapata	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation Meteorologist, Bunda Agricultural College, University of Malawi
1. Nations 1 Dedza I 2 3 Farmer 1 2 3 Others 1.	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Islatistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata Dr. M. Kwapata	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation Meteorologist, Bunda Agricultural College, University of Malawi Bunda Agricultural College, University of Malawi, Agricultural Rural Policy
1. Nations 1 Dedza 1 1 2 3 Farmer 1 2 3 Others 1. 2.	Godfrey Limwame Ission for Disaster Preparedness James M.K. Chiusiwa Al Statistical Office Evance Kadongola District M. Jere TA Kachindamoto G.V.H. Msunduzeni rs' Organization S. Paulo R. Beni A.G Chapata Dr. M. Kwapata Dr. Khaila	Chief Relief Officer, Dept. of Disaster Preparedness Data Dissemination, Lilongwe Branch, National Statistical Office Dedza District Commissioner Traditional Authority of Kachindamoto Representative of Traditional Authority of Kachindamoto Chairman, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited Secretary, Bwanje Valley Irrigation Production and Marketing Cooperative Society Limited President, Domasi Water Users Assosiation Meteorologist, Bunda Agricultural College, University of Malawi Bunda Agricultural College, University of Malawi, Agricultural Rural Policy Research Unit

NO.	NAME	POSITION
5.	Johns B. Kamangira	Monitoring & Evaluation Specialist, Smallholder Flood Plains
	* * * * * * * * * * * * * * * * * * *	Development Programme, IFAD
Embas	sy of Japan in Zambia	,
1	Hiroyuki Ishi	Ambassador (2 nd BD Study and before)
2	Masaaki Miyashita	Ambassador (3 rd BD Study and after)
3	Kotaro Suzuki	Minister-counsellor (at Draft Final Report Explanation)
4	Tatsuro Koga	First Secretary
5	Tomoyuki Zaitsu	Second Secretary (until 4 th BD Study)
		First Secretary (at Draft Final Report Explanation)
6	Kenichi Yumoto	Second Secretary (until 3 rd BD Study)
7	Y. Numata	Advisor / Researcher (at 1 st BD Study)
JICA N	<u> Malawi Office</u>	
1	Takashi Kato	Resident Representative (until 3 rd BD Study)
2	Kyoji Mizutani	Resident Representative (3 rd BD Study and after)
3	Tatsuya Murase	Deputy Resident Representative (until 3 rd BD Study)
4	Kenichi Matsumoto	Assistant Resident Representative (until 3 rd BD Study)
5	Satoshi Kadowaki	Assistant Resident Representative (4th BD Study and after)
6	Kiyonori Matsushima	Project Formulation Advisor
7	Manda M. R.	Programme Officer
JICA I	Expert and JOCV	
1	Naoto Watanabe	JICA Expert (until 2 nd BD Study)
2	Hideo Okada	JICA Expert (4 th BD Study and after)
3	K. Niwa	JOCV (at 1 st BD Study)
4	Kotaro Tanaka	JOCV
5	Satoshi Ueno	JOCV (until 2 nd BD Study)
6	Yuki Yamada	JOCV (at Draft Final Report Explanation)

4. Minutes of Discussions

4-1 Minutes of Discussions on the Basic Design Study on the Project for Rehabilitation of the Bwanje Valley Irrigation System in the Republic of Malawi (Inception Report, February, 2003)

MINUTES OF DISCUSSIONS

ON

ON THE PROJECT FOR REHABILITATION OF

THE BWANJE VALLEY IRRIGATION SYSTEM

IN

THE REPUBLIC OF MALAWI

In response to a request form the Government of the Republic of Malawi, the Government of Japan decided to conduct a Basic Design Study on the Project for Rehabilitation of Bwanje Valley Irrigation System (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Malawi the Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Tomoyuki ono, Grant Aid Division, Bureau of Economic Cooperation, Ministry of Foreign Affairs, and is scheduled to stay in the country from 21 February to 28 March, 2003.

The Team held discussions with the officials concerned of the Government of Malawi 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.

Lilongwe, 25 February, 2003

Mr. Tomovuki Ono

Leader

Basic Design Study Team

Japan International Cooperation Agency

Ms. A.F. Mchiela

Principal Secretary

Ministry of Agriculture and Irrigation

The Republic of Malawi

ATTACHMENT

1. Objective of the Project

The objective of the Project is to protect the Bwanje Valley Irrigation System from natural disasters through the relocation of the main canal constructed in 1999 under Japanese Grant aid, construction of a footbridge and so on.

2. Project site

The site of the Project is located in the left bank of the Namikokwe River, Traditional Authority Kachindamoto, Dedza District, Central Region, as shown in Annex-1.

3. Responsible and Implementing Agency

The responsible and implementing agency is the Ministry of Agriculture and Irrigation (hereinafter referred to as "the MOAI") as shown in Annex.2.

4. Minutes of Discussions on the Basic Design Study and the Follow-Up Implementation of the Project for the Bwanje Valley Smallholder Irrigation Development

Both sides have read and reconfirmed all the contents of the Minutes of Discussions on the Basic Design Study signed on 18 September, 1996 and 3 December, 1996 and the Follow-Up Implementation signed on 27 September, 2002. The copy of the Minutes is attached herein as Annex-3.

5. Items requested by the Government of Malawi

After discussion with the Team, the items described in Annex-4 were finally requested by the Malawi side. The final components of the Project, however, will be decided after further studies based on the information collected.





6. Japan's Grant Aid Scheme

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

7. Schedule of the Study

- 7-1. The consultant members of the Team proceed to further studies in Malawi until 28 March, 2003.
- 7-2. JICA will prepare a draft report in English and send it to the Government of Malawi through JICA Malawi Office around May 2003.
- 7-3. In case that the contents of the report is accepted in principle by the Government of Malawi, JICA will complete the final report and send it to the Government of Malawi by July 2003.

8. Other relevant issues

- 8-1. Both sides reconfirmed that Lilongwe ADD was responsible for managing Bwanje Valley Irrigation System including land leveling works. Both sides also confirmed that the appropriate implementation of leveling works at the system was essential. The Malawi side promised to take necessary measures and allocate 3 bulldozers just only for land leveling works in Bwanje Valley Irrigation System including fuel and personnel to complete rough leveling. The Malawi side further promised that the farmers should start smooth land leveling works from March 2003 under the full responsibility of Lilongwe ADD. The Malawi side shall formulate a program for land leveling works including at least the following items by 28 March and carry out land leveling works according to the program.
 - 1) locations of rough leveling areas and excavation volume,
 - 2) schedule of rough leveling and smooth leveling, and
 - 3) budgetary allocation for personnel, fuel and repair cost.



The Japanese side shall assess the feasibility of the program in the course of the Study, and confirm the progress of 1) the smooth leveling works at the time of the explanation of the draft report, 2) rough leveling works before the "Exchange of Notes (E/N)".

- 8-2. The Malawi side explained that National Steering Committee (NSC) has been already established for the smooth implementation of the project. The Malawi side promised to submit the terms of the reference of NSC to Japanese side. The member of the National Steering Committee is as follows:
 - The Controller of Irrigation Services (Chairperson)
 - The Director of Extension Services
 - The Director of Land Resources Conservation
 - The Director of Crop Production Services
 - The Program Manager of Lilongwe ADD
 - · The Director of Animal Health and Industry
 - The Director of Agricultural Research and Technical Services
 - . JICA Malawi Office Representative
 - JICA Experts Representative
 - Representative of Farmers Cooperative
- 8-3. Both sides reconfirmed that the cooperative had hired farmers to do the clearing of the tertiary canals. Both sides further reconfirmed that Lilongwe ADD will make the necessary arrangements for the implementation of an efficient water distribution system and the maintenance of the main and branch canals for Bwanje Valley Irrigation System.
- 8-4. The Malawi side promised to include the necessary budget in the 2003/04 financial year prior to the E/N and thereafter, for the next 4 years up to 2006 for the implementation of the project, including land leveling, operation and maintenance of the project and the NSC according to the draft report. The project will proceed after the confirmation of the budget allocation by the Malawi side to the Japanese side as a condition for the Japanese Grant Aid to be implemented.
- 8-5. The Feam recognized the following,
 - 1) The river course was very close to the upstream portion of the main canal after the flood disaster on 2 February, 2003.
 - 2) The future possibility of damage to the main canal by flood was increasing.



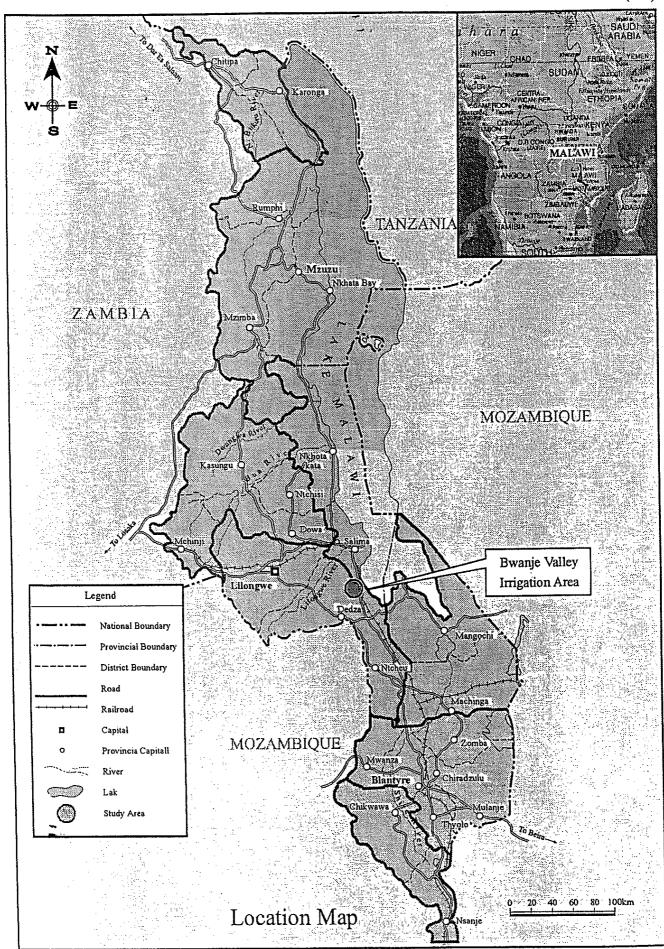
P

Both sides confirmed that the necessity of counter-measures to protect the upstream portion of the main canal from natural disasters would be examined in the course of the Study.

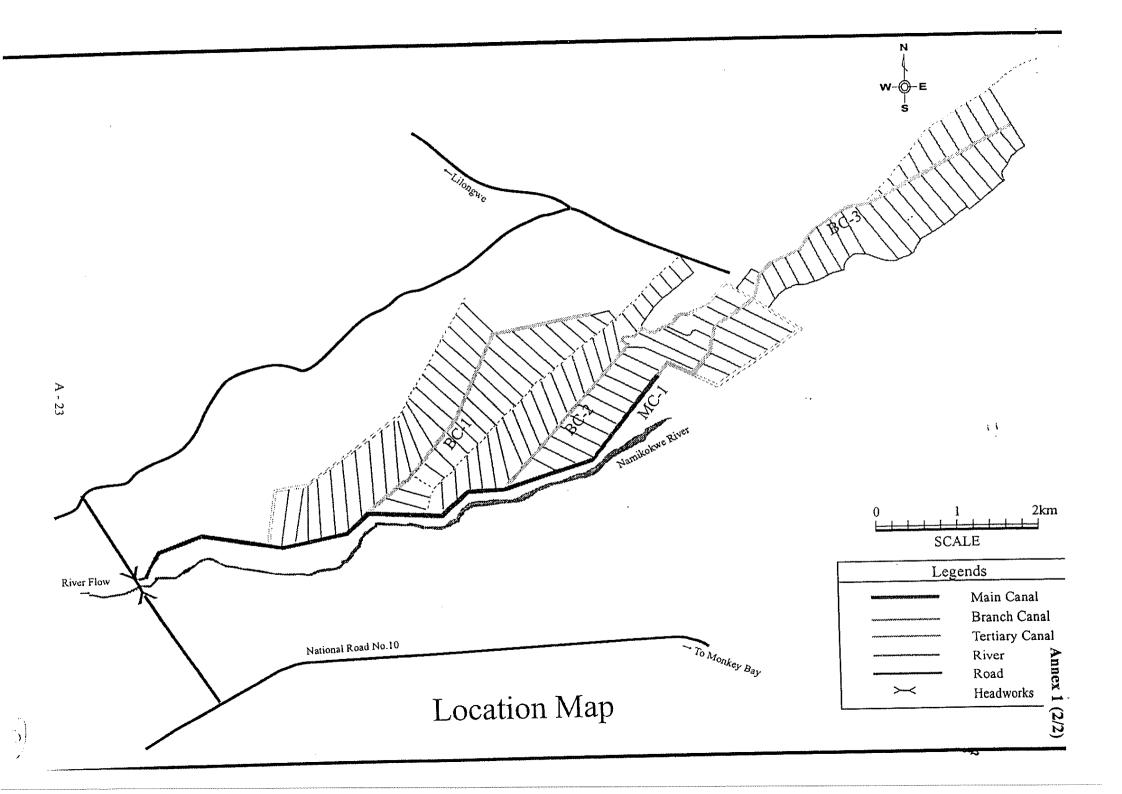
- 8-6. Department of Agriculture and Extension is responsible through Lilongwe ADD for the following,
 - 1) to organize the farmers' group and facilitate its registration as a farmers' cooperative with the legal activities,
 - 2) to reformulate by-laws and regulations of farmers' groups,
 - 3) to reformulate operation and management plans carried out by farmers' groups
- 8-7. The land for relocation of the main canal shall be secured by the Malawi side before the implementation of the Project.
- 8-8. The Malawi side declared that a fully fledged Environmental Impact Assessment for the project will not be necessary as this is not a new project and its scale is rather small, requiring a scaled down Environmental Impact Assessment to be carried out by Malawi side if necessary.
- 8-9. The Malawi side will ensure that the plot holders that will be affected siting of the new by the are properly relocated before the implementation of the Project can be effected.



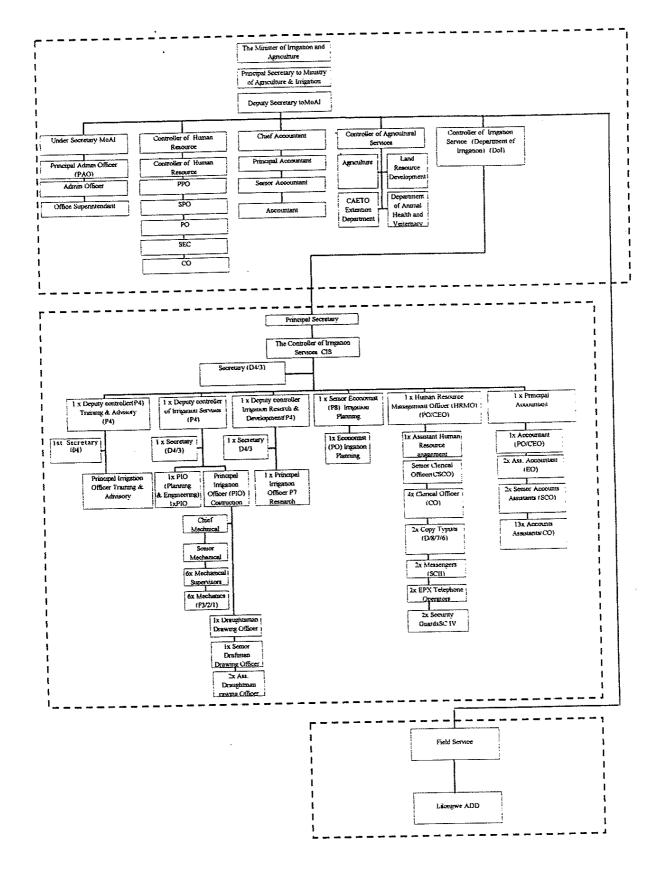
W







Ministry of Agriculture and Irrigation, Malawi & Department of Irrigation







MINUTE OF DISCUSSIONS

ON

THE BASIC DES 11 STUDY ON THE PROJECT

FOR

BWANJE VALLEY MALLHOLDER IRRIGATION IN
THE REPUBLIC OF MALAWI

Based on the results of the Preliminary Study, the Japan International Cooperation Agency (JICA) decided to conduct a Basic Design Study on the Project for Bwanje Valley Smallholder Irragation (hereinafter referred to as "the Project"), and entrusted the study to the Japan mornational Cooperation Agency (JICA).

JICA sent to the Republic of Milawi the Basic Design Study Team (hereinafter referred to as "the Team"), with is headed by Mr. JUNJI TAKAHASHI, Development Specialist, Institute for International Cooperation, JICA, and is scheduled to stay in the country from eptember 10 to October 10, 1996.

The Team held a series of discussions with officials concerned of the Government of Malawi and conduct difield surveys at the study area.

In the course of the discussions and field surveys, both parties have confirmed the main items described on the arached sheets. The Team will proceed to further work and prepare the Basic Design and Design and

Lilongwe, September 18, 1996

Mr. JUNJI TAKAHASHI

w black o

Leader.

Basic Design Study Team.

IICA

Mr. K. MANJOLO

Principal Secretary,

Ministry of Irrigation and Water

Development,

The Republic of Malawi

Mr. J. M. MHANGO

Senior Assistant Secretary,

Ministry of Finance,

The Republic of Malawi

A - 25

ATTACHMENT

1. Objective

The objective of the Project 1 living conditions of the small improvement of agricultural as

increase agricultural production and improve the older farmers in the project area through social infrastructure.

2. Proposed Project Area

The project sites are located is Authority (hereinafter referred Region. The name of villages !-

e left bank of the Naminkhokwe river, Traditional o as "TA") Kachindamoto, Dedza District, Central ted in the Project area are listed in the ANNEX-I

3. Responsible and Executing Or-

The responsible and executi

mization

organization of the Project is the Ministry of Irrigation and Water Develope int (hereinafter referred to as "the MIWD").

4. Items requested by the Govern unt of Malawi

After discussions with the Te: requested by the Government of Stalawi. The final components of the F based on the information collec-

. the items described in ANNEX-II were finally

ect. however, will be decided after further studies

5. Japan's Grant Aid System

(1) The Government of Mala described in ANNEX-III t!

(2) The Government of Mai. ANNEX-IV for the smooth Japan's Grant Aid is extend

has understood the Japan's Grant \id system as ugh the explanation by the Team.

will take the necessary measures described in inplementation of the Project, on condition that the to the Project.

6. Schedule of the Study

(1) The consultant members of Malawi until October 10.1

(2) JICA will prepare a draft b explain its contents in early

(3) In the event that the conteprinciple. JICA will final. Government of Malawi ara Train will proceed to conduct further studies in

design report and dispatch a mission in order to ecember 1996.

of the draft basic design report are accepted in the basic design study report, and send it to the d February 1997.

A - 26

Other Relevant Issues

(1) Farmers Group

Farmers group shall be organzed by the beneficiaries of the Project based on the existing Mutandamula Importion Scheme Committee. The group shall be responsible for the operation and maintenance of the irrigation facilities constructed by the Project. The Salima Agricultural Development Division (hereinafter referred to as the Salima ADD") shall take the initiative to organize the group and train the members of the group through its extension service. The establishment place of the group such as time schedule, organization structure, members, activities and regulations shall be made by the Salima ADD and beneficiaries, and reported to the draft basic design explanation team which will be dispatched in early Decamber 1996.

(2) Land Acquisition

The land of the Project area is classified into customary land and controlled by the local authority i.e. group sillage headmen and TA Kachindamoto. The MIWD shall obtain the TA's or upup village headmen's commitment on the land acquisition necessary for the reject implementation by the letter. The letter shall be submitted to the Team who end of September 1996.

(3) Land Allocation

The new irrigated land will allocated after the construction of rrigation facilities by the land allocation committee. The MIWD shall make an allocation plan such as the establishment of the land allocation committee, a field block plan and a way of land allocation to the farmers in consultation with the local authority and the Team.

4) Water Right

The MIWD shall take necessary action to secure the water right for the Project based on the water requirement. Eich will be calculated in the draft basic design report.

(5) Government's Support

1) The MIWD shall allocate necessary budget and assign sufficient personnel to the Project in order to support beneficiaries for smooth operation and maintenance of the facilities constructed by the Project.

2) The MIWD shall train the be evicinities through the Salima ADD's extension service in cooperation with the Ministry of Agriculture and I vestock Development.

Yuu

- 3) The MIWD shall owe full proport for the realizing successful excution of farmers' participation through the Salima ADD.
- (6) Farmers' Participation

 The beneficiary farmers sha participate in the construction of the Project facilities under technical guidar or of the Irrigation Section of the Salina ADD.
- (7) Compensation

 The Government of Malawi state compensate for the transfer of houses and the removal of planted trees if these are necessary for the construction of the facilities by the Project.
- (8) Bilharzia Control

 The MIWD shall take count reneasures for the control of bilharzia in the irrigated area of the Project to cooperation with the Community Health Service Unit of the Ministry of Health
- (9) Suspension of Crop Cultivation

 The MIWD shall be responsible for arranging with the Ministry of griculture and Livestock Development for the suspension of crop cultivation in the Project area in order to ensure smooth execution of construction works.
- (10) Development Center

 The MIWD and the benefician en recognize the importance of the Development Center, and that funds will be requested from the Government of Japan separately from this project.

du

IJ

NEX-I

The name of the villages area in the Project area

MTHEMBANJI Group Village	KAFULAMA Group Village	BWANARI Group Village	MCHANJA Group Village
Dziko	①Muiwaza	Madziatsasi	①Mchanja
2)Mkondorire	②Mlongoti	Nankumba	②Mdulambale
3)Chatewa	(3)Maluza	Msolo	③Kamwendo
)Mthembanji	-	i Fole	(4)Khoswe
5)Mbangali		3wanari	5Mchembo
6)Bwanamakowa			6)Nbongwe
7)Garuanenji	- · · · · ·		
8)Mwasinja			

Mu

ANNEX II

Items requested 🕚 the Government of Malawi

ltems	Quantity	Priority
I. Irrigation and Drainage Plan		
Irrigation area	Rehabilitation 230 ha. New 570 ha	
Project Facilities		
Headworks	1 Site	-
Main Irrigation Canals	6.7 km	l
Branch (Secondary) Canal	8.3 km	<u> </u>
Tertiary Canals	. 55.7 km	1
Land Reclamation and Lev Hing	570 ha	1
Land Levelling	230 ha	2
Drainage Canals	12.2 km	1
Inspection Roads	12.8 km	·]
Road / Flood Protection Deach	7.0 km	1
Connecting Roads	2.4 km	2
II. Boreholes and Hand Pumps		2
III. Rice Mills and Maize Mills with Sheds		2
IV. Road Construction and Rehabilitation		
Road Construction	1.Intake*point to M10 2.New irrigated are to route C	2
Road Rehabilitation	1.Route C (M5 - Muwasinja) 2.Route D (Mwasinja - Mtembanji)	3

 η

A - 30 A - 10 Muy

MIN TES OF DISCUSSIONS

ON

THE BASIC D S GN STUDY ON THE PROJECT

FOR

BWANJE VALLEY SM. 13 HOLDER IRRIGATION DEVELOPMENT

IN THE REPUBLIC OF MALAWI

(EXPLANATIO : ON THE DRAFT BASIC DESIGN)

In September 1996, the Japan International Cooperation Agency (JICA) dispatched the Basic Design Study Team on the Project for Bwanje Valley Smallholder Irrigation Development (herein fiter referred to as "the Project") to the Republic of Malawi. After the assessment of the data and information obtained through the study, JICA has prepared the Draft Basic Design on the Project.

In order to explain and ansult with the officials concerned of the Government of Malawi on the components of the Draft Basic Design, JICA sent to the Republic of Malawi a Study Team (he smafter referred to as "the Team") headed by Mr. JUNJI TAKAHASHI, It wellopment Specialist, Institute for International Cooperation, JICA, which is a heduled to stay in the country from November 26 to December 4, 1996.

As a result of the discussions held between the Team and the officials concerned of the Government of Malawi, both parties have confirmed the main items described on the attached shee

Lilongwe, December 3, 1996

Mr. JUNJI TAKAHASHI

Leader,

Draft Basic Design Explanatio Team.

JICA

Mr. K. MANJOLO

Principal Secretary,

Ministry of Irrigation and Water

Development,

The Republic of Malawi

Mr. J. C. T. NTHANI

Deputy Secretary (Bilateral),

Ministry of Finance,

The Republic of Malawi

ATTACHMENT

1. Components of the Draft Basic Disign

The Government of Marinai has agreed and accepted in principle the components of the Draft Basic Design proposed by the Team.

2. Japan's Grant Aid System

- (1) The Government of Malawi his understood the Japan's Grant Aid system as described in ANNEX-I through the explanation by the Team.
- (2) The Government of Malawi will take the necessary measures described in ANNEX-II for the smooth amplementation of the Project, on condition that the Japan's Grant Aid is extended to the Project.

3. Schedule of the Study

JICA will complete the find apport in accordance with the confirmed items, and send it to the Government of Male view by March 1997.

4. Other Relevant Issues

(1) Government's Support

The Ministry of Irrigation at 1 Vater Development (MIWD) has confirmed the allocation of necessary budg t and the deployment of sufficient personnel for smooth implementation of the Project.

(2) Land Acquisition

The land of the Project area is classified into customary land and controlled by the local authority i.e. group village beadmen and TA Kachindamoto. The MIWD has obtained the TA's commitment on the land acquisition necessary for the Project implementation by the letter.

(3) Land Allecation

The new irrigated land will be altocated after the construction of irrigation facilities by the land allocation committee. The Salima ADD has committed that the formation of land allocation committee would be done after signing of Exchange of Notes (E/N). The local authority has confirmed the fair allocation of land for beneficiaries of the Project.

(4) Water Right

The MIWD shall take necessive action to secure the water right for the Project based on the water requirem in which was calculated in the draft basic design report.

A - 32

 $A \sim 17$

lay

- (5) Farmer's Group
 - The Salima ADD and in fictures of the Project have already made the establishment plan of the innerto group. The planed group shall be organized based on the existing Mtap annula irrigation Scheme Committee immediate or after the confirmation of the Project implementation as per the attached commitment letter by the Salima ADD. It Salima ADD shall take the initiative to organize the group and train the members of the group through its extension service. The group shall be responsible for the operation and maintenance of the freilities constructed by the Project
- (6) Operation and Maintenanc (a ganization of the Project

 The MIWD has confirme to the responsible organization for the operation and maintenance of the factors constructed by the Project as shown in the ANNEX III.
- (7) Farmer's Participation

 Both sides have confirmence the participation of the beneficiaries for sod facing works on embankment, a cavation of the small drainage canals, and lending around the drain pit of the selenoles.
- (8) Compensation

 The Government of Malar to half compensate for the transfer of houses and the removal of planted trees, to these are necessary for the construction of the facilities by the Project.
- (9) Suspension of Crop Cultimate in The MIWD shall be responsible for arranging with the Ministry of Agriculture and Livestock Development for the suspension of crop cultivation in the Project area in order to ensure smooth exact tion of construction works.
- (10) Bilharzia Control

 The MIWD shall take program measures for the control of bilharzia in the irrigated area of the Project on cooperation with the Community Health Service Unit of the Ministry of Health.
- (11) Land Leveling and Fox: when The Malawi side requester that the land leveling for sample plots be done by hand if not by machine in the white project area. It was also requested that the foot path along tertiary canalises redened by 1 m so that ox-carts can be used to hauf produce from the field.

0

ANNEX-III OPERATION AND MAINTENANCE ORGANIZATION OF THE PROJECT

Component	O/M Organization
Irrigation and Drainage Facilities	Farmers' group with the assistance of Irrigation and Extension Sections of Salima ADD
Boreholes and Hand Pumps	Borchole committees assisted by MIWD, Ministry of Women, Children Affairs and Community Services, Ministry of Heath and NGO
Ricemills	Ricemill O&M committees assisted by Mechanical Services Section of Department of Irrigation
Rural Roads	Dedza District Office of the Ministry of Works and Supply



FROM:

THE PROGRAMMENT AGER, SALIMA ADD,

PRIVATE BAG 1, SALCAA.

TO WHOM IT MAY CONCERN TO:

LETTER OF COMMITME TO FORMATION OF FARMERS ORGANISATION IN TROPOSED BWANJE VALLEY IRRIGATION PROJECT.

I would like to express our commitment of a facilitate: -

1) Formation of requisite farmers committee structures viz:

Main committee,

Land Allocation committee.,

Marketing - sub - committee,

Water distribution sub - committee,

Disciplinary sub - committee and

Rice mill sub - committee.

Operation and Maintenance surve committee

- 2) Training and role definition of contactee members.
- 3) Formation of committee constitutions

The activities will be undertaken after exchange of notes between the Governments of Malawi and Japan.

Signed.....

Head of Agricultural Extension and Training

MINUTUS OF DISCUSSIONS

ON

THE FOLLOW-UP IN TELEMENTATION OF THE PROJECT

FOR

THE BWANJE VALLEY SMALLHOLDER IRRIGATION DEVELOPMENT

IN

THE PEPUBLIC OF MALAWI

From May 28, 3002 to Jun 3, 2002, the Japan International Cooperation Agency (hereinafter referred to as "JICA") discontined the Follow-up Study Team of the Project for the Bwanje Valley Smallholder Irrigation I resolution to the Republic of Malawi (hereinafter referred to as "Malawi").

Considering the appreciation 19.1A decided to implement the rehabilitation work on the Follow-up Cooperation of the Project of the Bwanje Valley Irrigation Development (hereinafter referred to as "the Work") and sent the Follow-up Implementation Team (hereinafter referred to as "the Team") headed by Mr. Hideyuki Korron JICA Senior Adviser for Agricultural Development from September 22 to September 27, 20.00

The Team held discussions with the officials concerned of the Government of Malavi.

In the course of the discussion both sides confirmed the main items described on the attached sheets.

Lilongwe, September 27, 2002

Mr. Hirdeyuki Kanamori

Team Leader

The Follow-up Implementation Team 6

The Bwanje Valley Irrigation

Development Project

Japan International Cooperation Agence

Mr. Andrua F. Mohie

Ms. Andrina E. Mchiela Principal Secretary

Ministry of Agriculture and Irrigation

The Republic of Malawi

TACHMENT

1. Scope of Work for Pollow-up Cooperation

1.1 Rehabilitation Str: tegy

For sustainable rehabilitation, the Work include not only restoring the flood protection dike/scheme access road and main canal but also moving the domeged parts of main canal line inside of the scheme at about 300m. The desired length of the moved can be about 800m. With this movement, the canal can avoid the future damage due to much bigger floody than this January. The estimated period of the custainable rehabilitation is, however, over this dry man in. Only restoring the dike with protection works can be completed within this dry season. It has, then force been decided that all the related jobs on restoring the dike is carried out with the aid scheme cally bellow-up cooperation and all the related jobs on moving the main canal is with the other fund. Other the main systematic, Japan's cooperation or the budger from the Government of Malawi will be possible fund for moving the canal.

1.2 Contents of the Work

The work contents covered by the Follow-to-operation are as follows;

- (1) Rehabilitation of the damaged flood dike at three points
 - 1) Uostream

: !18m

2) Midstream

37m

3) Downstream :

20m

- (2) Removal of obstructions to river flow and excavation to increase the river flow capacity
- (3) Installation of dike protection for the parts long which farm road is close to river (Mout 800m)

1.3 Organization of the Work

The following organization structure is established to carry out the Work.

(1) The Client

JICA Malawi Office

(2) The Consultant:

Nippon Koci Co., Ltd.

(3) The Main Contractor:

(The contractor of decided after tendering.)

1.4 Schedule of the Work

The Contractor shall complete the Work by frauary 15, 2003. If, however, the rainy season start earlier and the civil work cannot be continued or work as are very risky for floods, the work will be atopped. If, furthermore, the Work is not completed until the end of Japanese fiscal year in March 2003, the rest of the work should be carried out with the other find.

2. Scope of Work Grant Aid

The Malawi side () a request of Japanese grant and for the following nems in the score

- (1) Move ent of the main canal the with about 800m long inside of the scheme at about 300m
- (2) Construction of one access by the fee footpath of farmers over Namikolone River

Furthermore, the Malawi side will request a curry out the remaining rehabilitation jobe if the Work cannot



be completed by the end of Japanese fiscal and the to stopping the Work for early starting the ramy season, The Team has promised to come by those required to the relevant authorities in Japan. The Team emphasized that acceptance of the request for grant air + uld be hard without much more progress of land leveling than the present.

3. Implementation of Land Leveling

3.1 Progress and Implementation Activities

The Malawi side reported that three bulldooms and one tractor were provided at the site although total four bulldozers and eight tractors would be provided. The cumulative total area that has been leveled up to the present is 110ha. The bulldozers and tracter have not fully worked due to frequent break down. The present progress of land leveling is thus behind of the planned schedule. Only 31ha have been leveled in this dry season although the target hectares were Wha. The detailed number of the provided machinery and present progress are as shown in Annex-1. Activities and personnel arrangement of Lilongwe ADD are also shown in Annex-1. In order to supplement to lack of machinery, the Malawi side has planed to employ laborers and conduct manual leveling.

The Team appreciated that the Malawi side or agnized smallness of the present progress and took measures to improve the present situation although in Team heard such a small progress with regret. The Team, therefore, described our estimation of leading rate with four bulldozers and eight tractors citing the Follow-up Study report and requested to provide the full number of machinery and improve the mechanical service system and others to increase the sometability in consultation with the Japanese expert and JOCV members.

3.2 Budgetary Program

The Malawi side described the budget plants shown in Annex-1. The Team introduced the result of cost estimation with four bulldozers and eight tractors to complete the leveling in three dry seasons, as shown in Annex-2. The Malawi side has promised to gudy the cost estimation, establish more precise budget plan and make the great efforts to provide the budget. For realizing the plan, the Malawi side intends to apply the counterpart fund for KR2 as a part of the budget source. The Team has recommended that the Malawi side takes necessary measures to request the counterpart fund to the Ministry of Finance and Economic Cooperation, and has promised to convey the intension to the relevant authorities in the Japanese Embassy to Zambia as well as in Japan.

Recommendations

Increasing performed hectares of land leading is mandatory for realizing the grant aid. The Team will recommend the followings to increase the leveling progress, considering the facts found during our field survey.

(1) Evaluate hardness of leveline (soil type, number of existing trees, existence of hills, etc) and necessity of leveling (flat lead or rough land) for each field and give priority to the field in which leveling is easy and no is sary

(2) Apply tractors for leveling the landy soil area of 150ha at upper side of the scheme after trial leveling.



(3) Manage all the buildozers and the story to work at vicinity so that the mechanic can efficiently serve the machine

These recommendations should be realized a smoothation with the JICA expert and JOCV memitirs.

5. Other Relevant Issue

The Malawi side has promised to submit to official request on the grant aid within one w $\circ k$ to the Japanese Embassy to Zambia.

ANNEX 1. ANSWERS FROM DEPARTMENT OF IRRIGATION O 1 MAINTENANCE OF BWANTE VALLEY IRRIGATION PROJECT

1. Confirmation of cooperation:

Provision of disc. on time at Lilongwe ADD.

This was accomplished through a meeting in the Programme Manager's Office with the following efficers in LADD:

- i. Dr. B.C. Munt ... i, Programme Manager (P3)
- ii. Dr. B.A.R. Chanara, Ag Deputy Programme Manager (* 5)
- iii. Mr.: M. Mgoror ulu, Chief Agricultural Extension Officer (P5)
- iv. Mr. N. Matak hief Land Resources Conservation Off ter (P5)
- v. Mr. T.M. Mpereni, Divisional Irrigation Officer (P.O)
- vi. Mr. F. Kamanga Principal Economist (P7)

2. Progress on Scope of Work:

i. Land leveling thectores)

<u>Target</u>	This Period	<u>Previous</u>	<u>Cummulati e Total</u>
		<u>Total</u>	
200	31	79	110

ii. Number of bell lozers / tractors presently working in 3wanje Valley Irrigation

Bull dozers (3 Tractors (1

However dur we the last two months, there were two additional tractors which were drawn from Shire Valley and Salim (ADDs.)

iii. Budget plan in delivered amounts for Bwanje Valley Frigation Project.

Source of Funding	Annual Provision (MK)	Monthly A	Alle	on		TOTAL (MK)				
		Mar	Λ,	-	May	Tune	July	Aug	Sen	-
) (C)+	7000 3	Mar 115,000	N	_	115,000	Nil	130,000	130,000	4(4)00	530,000
MG*	1000,				Nil	Nil	Nil	Nil	200,000	200,000
HIPC	200,00	Nil	N						Nil	50,000
KR2	1900.)	Nil	56	0	Nil	Nil	Nil	Nil	17.1	100,000
* MC - 1	Vistaryi - io	vernment	re.	rue	2					

MG - Malawi Government ro

KR2 fund

vere used for purchase of fuel for bulldozers and tracted involved in land leveling.

 HIPC fur labour fo

are being used for recruitment of manual and leveling and catchment conservation work

Activitie under Lilonge iV.

\DD after take over from Salima ADD

weling - 31 hectares 1. Lan

nent conservation (ridge pegging and ridge 2. Cale

ent) - 158 hectares alig

3. Deliver of Agricultural

tension Services

Extensio Target 1110

neetings

Achievement

300

Comm ity mobilization

3 conducted with cooperative leaders 4 meet

ation campaign conducted to improve land 1 sensi in the project area. utilizal

atory crop enterprise selection meetings 4 partic I with farmers. condu

of new crop regimes 4. Facilitate the introduction

> ed multiplication Cassava

> > 20 hectares of cassava nurseries are being established with assistance from FAO

• Beans to fuc ion

129 hectares of beans have been planted in the area

Sweet F is o

Approximately 1 ha of sweet potato has been planted for the supply of planting method in summer.

V. Number of person a signed to Bwanje Valley Irrigation Project

Staff list

1. 2.	Dr. B.C. Munthali Mr. D. Makina	Programme Manager, Lilongwe ADD District Agricultural Development Officer Dedza
3. 4. 5. 6. 7.	Mr. T.M. Mpezeni Miss T. Beza Mr. B. Kanyenda Mrs. M. Mgomezuli Mr. D. Banda	Irrigation Officer, LADD Irrigation Officer, LADD Irrigation Officer Dedza Chief Agricultural Extension Officer, LADD Agricultural Extension Coordinator Mtakataka EPA
8. 9.	Mr. A.B. Cheyo Mr.W.L. Singano	Land surveyor, Dedza Land Surveyor Bwanje Valley Irrigation Project
10.	Mr. D.W. Chirwa	Land Surveyor (seconded from the Department of Irrigation Headquarters)

11. Plant operators

•	Mr. S.K. Banda, 🕠	Bull dozer Operator
•	Mr. L. Chizyen; o	u
	Mr. C. Gunde	Tractor driver
•	Mr. A. Samu	Bull dozer operator
٠	A.S. Njerenge	Scheme Manager
•	Mr. B.J. Ngwan ba	AEDO
•	Mr. M.G.A. Majosha	AEDO
u	Mrs. C. Ngo pa	Catchment Conservationist



LILONGWE ADD WORK PLAN SCHEDULE FOR BWANJE VALLEY IRRIGATION PROJECT, 2002

ID No.	OBJECTIVES AND THEIR ACTIVITIES	RESP.				TIN	1EFR/	ME					BUDGET
		OFFICER	Mar	Apri	May	June	July	Aug	Sep	Oct	Nov	Dec	(MK)
1	Community mobilized for maintenance	CAEO											
1.	Conduct sensitization meetings	CAEO	Х	Х	Х	X	Х	Х	X	x	Х	X	279000
1.2	Train cooperative members in leadership and grroup	CAEO			X								100,00
1.3	Facilitate cooperative activites	DIO	Х			Х	X			X			100,00
1.4	Conduct participatory crop and enterprise selection	DCO	х	Х	Х					l			100,00
	Train farmers in maintenance of feeder canals	DIO	X			X				X	l		100,00
1.6	Conduct follow up visits	PM	Х	X	Х	X	X	X	X	Х	X	X	100,00
	Train Staff on infigation scheduling	DIO	X			X				X	1		100,00
	Facilitate catchment conservation measures	CLRCO	X	X	X	X	X	Х	X	X	X	X	400.90
	Facilitate river bank protection	CLRCO	х	Х	X	X	Х	Х	X	Х	Х	X	400,90
	Facilitate farmer training in water distribution and	DIO	x	X	X	X	X	Х	X	X	X	X	150.00
	management	•		Ì	1					1			•
	Sub total				1	1			-	•			
2	Canals Maintenance and land leveling	1									; ··· ··· ·	i	2 1/10/2
~ '		100		i	10-	10	 		\ -	 	-	ļ	2 3000 10.00
	A Secretary of the secr	DIO.	\	12-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \	1	7	X	X	$\frac{1}{N}$	7	4,000,00
	Mantan course. Exeritate line leveline	DIO		$\frac{1}{x}$	<u> </u>	X	X	7		X_			1,000,00
	sub total]]	ļ	!		
3	Flood Centrel	_	{	!	!				Į	ļ <u> </u>	·		1.000.00
	Exeavate river, hard to increase time to that the control of		i	ļ	 		-			Χ	X		15,000,00
ا اها بمعود در در	English rabion reolection		<u> </u>	 						X	X		10.000.00 25.000.00
	Sub total TOTAL	-	 	-		 	1			 	 		32.070.80

FOOT NOTE:

CAEO - Chief Agricultural Extension Officer

DIO - Divisional Irrigation Officer

PM - Programme Manager

CLRCO - Chief Land Resources Conservation Officer

CIS - Controller of Irrigation services



Table Cost Estimate of Land Leveling

	Description	Specification	Unit	Quantity		10MKW	(t (MKW)	Remarks
T	ransportation (One-way)	1				324,000	III J. os th xeita
	uildoze: 1	D5M.90PS	lime	1		16,200	16,200	Already at the site
	ulldozet 2	D5M_90PS	time	1		16,200 [Already at the site
1		DSM,90PS	tune	2		16,200	32,400	<u> </u>
	ulldozer 3 .	D5M.90PS	lime	2		16,200	32,400	
	ulidozer 4		time	1		16,200	16,200	Already at the site
	ACTOL WITH DETERMINE	60PS		ii		16.200	16,200	Already at the site
	ractor with scraper 2	60PS	time			16,200	32,400	
	ractor with scraper 3	60PS	time	2		16,200	32,400	
T	ractor with scraper 4	60PS	time			16.200	32,400	
T	ractor with scraper 5	60PS	time	2			32,400	
	ractor with scraper 6	60PS	time	2		16.200		
1 T	ractor with scraper 7	60PS	time	, 2		16,200	32,400	
	ractor with scraper 8	60PS	time	2		16.200	32,400	
- 1	THERM WITH SOLD !							
- 15	ental Charge						0	
		D5M,90PS	month	0		i)	0	
_	ulldozer l	D5M.90PS	month	0		i)	0	
	tulidozer 2		month	0		0	0	
1	Julidozer 3	D5M.90PS				0	0	
11	Julidozer 4	D5M.90PS	nionth	0		0		
1	ractor with scraper 1	60PS	month	0				Assumed to be free of charge
	ractor with scraper 2	60PS	month	Ü		0		because of the government's
	ractor with scraper 3	60PS	month	0		0	0	ргорену
	ractor with scraper 4	60PS	month	0		0	0	· · ·
		60PS	month	0		()	0	
	ractor with scraper 5	60PS	month	0		0	0	
1011	ractor with scraper 6	60PS	nonth	0		()	0	
1111	ineter with securer 7	<u> </u>	month	0	_	Ð	0	<u> </u>
12 3	ractor with scraper 8	60PS	menta					
		<u> </u>					16,117,200	
11	ael						1.726,830	
ī !!	fulldozer 1	ID5M.90PS	month	38 574		42		0.188 lit/kw-h×90kw×6h×21da
	Julidozer 2	D5M,90PS	month	38.374		45	1,726,830	×18 months=38,374 lit.
	sulldozer 3	D5M,90PS	month	38 174		45	1,726,830	
	The state of the s	D5ML90PS	month	38.374	_	45	1,726,830	0.188 lit./kw-li×60kw×6h×21da
	sulidozer 4	60PS	month	25,583		45	1,151,235	*18months= 25,583 lit.
	racios with scraper 1	60PS	month	25,583	_	45	1,151,235	(21days:Working days in a
	fractor with scraper 2		month	25,583	j—	45	1,151,235	(210ays.working tarys in a
	Fractor with scraper 3	60PS		25.583	ļ—	45	1,151,235	month)
- ;	Tractor with scraper 4	60PS	nionth	25,583	-	45	1,151,235	1
	Fractor with scraper 5	60PS	month		·	45	1,151,235	4. MOLK LCHOOL MINIORANIA.
10	Fractor with scraper 6	60PS	month	25.583			1,151,235	(0.29×4nos.+0.10×8nos.)+
	fractor with scraper 7	60PS	month	25.583	!	45	1,131,233	21days/month=18 months
12	fractor with scraper 8	60PS	month	24 583	į	45	1,151,235	<u> </u>
i	110				ļ			
	Operators' Allowance		1		1		7,624,800	
		D5M,90PS	month	2,118		ł(K)	635,400)
	liuldozer l		month		1	300	635,400]
	itulidozer 2	DSM.90PS				300	635,400	7
	Bulldozer 3	D5ML90PS	month			300	<u> </u>	<u></u>
	Hulldozer 4	DSM.90PS	month			3(K)		
.5 1	Tractor with scraper 1	60PS	nionth					-1
6	Fractor with scraper 2	60PS	month			300		
7	Tractor with scraper 3	60PS	month]3(X)		2]
	Tractor with scraper 4	60PS	menth			3(X)		⊸ I
	Tractor with scraper 5	60PS	month			300		
		60l'S	month			3(X)	635,400	<u>)</u>
	Tractor with scraper 6		nionth			30X) }
111	Tractor with scraper 7	60l'S				30X	<u> </u>	 1
1.12	Tractor with scraper 8	60PS	mont	.,110	_			
				 			756,00	
	Topo Surveyors' Work	1		ļ			130,00	1 21days × 18 months × 4
 5			mardi			400	5 504.80	() persons=1.512 days
				.512	<u> </u>	j ()(131.20	O Ibersons - 1.215 miss
5.1	Topo Surveyor		nonate					
5.1			nanate					
5.1	Topo Surveyor Assistant		nemate		-:		3,402,00	0
5.1	Topo Surveyor Assistant Lubor			12.70	-; {	150	2.041.20	0 21days × 18 months ×
5.1	Topo Surveyor Assistant			13.600		150	2.041.20	0 21days × 18 months ×
5.1 5.2 6 6.1	Topo Surveyor Assistant Lubor			13.600		150	2.041.20	0 21days × 18 months × 36persons=13,608 days
5.1 5.2 6 6.1	Topo Surveyor Assastant Lathor Forement			13.600			2,041,20	() 21days × 18 months × () 36persons=13,608 days
5.1 5.2 6 6.1	Topo Surveyor Assastant Labor Forement Labor			13.600			2,041,20 1 1,360,80 1,100,00	0 21days × 18 months × 0 36persons=13,608 days
6 6.1 6.2	Topo Surveyor Assastant Labor Foremett Labor Others			13.600			1,100,00 1,000,00	0 21days × 18 months × 0 36persons=13,608 days
5.1 5.2 6.1 6.2 7	Topo Surveyor Assistant Labor Forement Labor Others Repairing of compinent		iiosefda maurobi	13.600			2,041,20 1 1,360,80 1,100,00	0 21days × 18 months × 0 36persons=13,608 days
5.1 5.2 6.1 6.2	Topo Surveyor Assastant Labor Foremett Labor Others		marki Ransis	13.600			1,100,00 1,000,00	0 21days × 18 months × 0 36persons=13,608 days
5.1 5.1 5.2 7	Topo Surveyor Assistant Labor Forement Labor Others Repairing of compinent		iiosefda maurobi	13.600			1,100,00 1,000,00	0 21days × 18 months × 0 36persons=13,608 days

Note This table is made on the supposition that costs such as address of stair concerns communication costs, handling charge of administration, etc. are to be distaired from the government's ordinary badget

Annex - 4

ITEMS REQUESTED BY THE GOVERNMENT OF VIET NAM

06-08-2002

(1) IRRIGATION AND DRAINAGE SECTOR

- a). Rehabilitation of Nam Trung Pumping Irrigation System
 - Rehabilitation of the existing pumping station
 - Rehabilitation of the existing main canal and its related structures
- b). Rehabilitation of Ho Thanh Reservoir Irrigation System
 - Rehabilitation of one of the existing Ho Thanh main canals and it's related structures.
- c). Nam Nam Dike Improvement
 - Improvement of a drainage gate
 - Digging a drainage canal
 - Construction of two dike spillways

(2) RURAL ROAD SECTOR

- a). Improvement of Route 15 A (South) with 6.5m wide and asphalt pavement, including construction of four bridges and related structures.
- b). Improvement of existing N.Kim N. Phuc- N. Cuong Road with surface pavement, including construction of bridges/box-culverts and related structures.
- c). Construction of erosion control facilities at three sites along Route 15A (South)

(3) RURAL ELECTRIFICATION SECTOR

Extension of Electrification for 3 areas except for Thung Giang area in Khanh Son Commune

Annex 5 : JAPAN'S GRANT AID SCHEME

1. Grant Aid Procedure

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

Application (Request made by a recipient country)

Study (Basic Design Study conducted by JICA)

Appraisal & Approval (Appraisal by the Government of Japan and Approval by

Cabinet)

Determination of

(The Notes exchanged between the Governments of Japan

Implementation

and the recipient country)

Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request. If necessary, JICA send a Preliminary Study Team 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 JICA, 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, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

- 2. Basic Design Study
- The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by

 JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic

document necessary for the appraisal of the Project by the 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;
- c) confirmation of items agreed on by both parties concerning the basic concept of the Project;
- d) preparation of a basic design of the Project; 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, JICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates the Study and prepares a report based upon the terms of reference set by JICA.

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 between the Basic Design and Detailed Design as well as to avoid any undue delay caused by the selection of a new consulting firm.

A - 47

3.

(1)

1) What is Grant Aid?

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

2) Exchange of Notes (E/N)

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

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.

4) 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.)

5) 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 of Japanese taxpayers.

- 6) Undertakings required to the Government of the recipient country
- a) to secure a lot of land necessary for the construction of the Project and to clear the site;
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities outside the site;
- to ensure prompt unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;
- d) to exempt Japanese nationals from customs duties, internal taxes and 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;
- f) to ensure that the facilities constructed and products purchased under the Grant Aid be maintained and used properly and effectively for the Project; and
- g) to bear all the expenses, other than those covered by the Grant Aid, necessary for the Project.

7) "Proper Use"

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

8) "Re-export"

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

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



Stage	Flow & Works	Recipient Governmen	Japanese Govenment	A)ICA	Consultant	Contractor	Others
Application	Reque	0					
Аррі	Screening of Project Project (T/R : Terms of Reference)		() ()	9			
ion & Prelimina	Prelimminary Study Field Survey Home Office Work Reporting	0	0	0			
Study (Project Formulation & Preparation) Basic Design	Basic Design Selection & Field Survey Home Office Work	0	0	0	0		
Study (Project F Preparation) Basic Design	Explanation of Draft Final Report			-			
	Appraisal of Project		0				
Approval	Inter-Ministerial Consultation		ာ				
Appraisal & Approval	Presentation of Draft	၁	0				ن ا
	Approval by the Cabinet		0				***************************************
	E/N (E/N: Exchange of Note)	0	0				
	Banking Arrangeme	0					
	Consultant Contract Verification Issuance of A/P	0	0	0	0		
ıtatío	Detailed Design & Tender Preparation for Tender	0	0	0	S		
Implementatio	Tendering & Evaluation	0	0	0	\circ	0	
	Construction Contract Verification A/P	0	0	0	0	0	
	Completion Certificate by Hecipient	0	0	0	0	0	
	Operation Post Evaluation (A/P : Authorization to Pay)	0	0	0			
Evaluatio n & Enllow on	Ex-Post > Follow	0	0	0			

Major Undertaking to be taken by Each Government

10.	ltems	To be covered by Grant Aid	To be covered by Recipient Side
, ,	To secure land		0
	To clear, level and reclaim the site when needed		(8)
-+			
3.	To construct access roads	9	
}	1) Within the site when required		(1)
_	2) Outside the site		
₹.	To rehabilitate the Beanje Valley Irrigation System	0	
	1) Relocation of a certain part of the main canal	0	
	2) Construction of a footbridge		
	3) Others if any		
5.	To bear the following commissions to the Japanese foreign exchange bank for the banking		
	services based upon the B/A (Banking Arrangement)		9
	Advising commission of A/P (Authorization to Pay)		0
	2) Payment commission		-
6.	To ensure unloading and customs clearance at port of disembarkation		
	in recipient country	6	
	1) Marine (Air) transportation of the products from Japan to the recipient country	0	<u> </u>
	2) Tax exemption and custom clearance of the products at the port of disembarkation		
	3) Internal transportation from the port of disembarkation to the project site		<u> </u>
7.	the same way be required in connection		
	with the supply of the products and the services under the verified contact		0
	such facilities as may be necessary for their entry into the recipient country and		
	stay therein for the performance of their work.		
8.	Laire internal taxes and		
Ο,	other fiscal levies which may be imposed in the recipient country with respect	Layer and the second se	(0)
	to the supply of the products and services under the verified contracts.		
9	1 or 1 lab facilities constructed		0
"	and equipment provided under the Grant.		
	To bear all the expenses, other than those to be borne by the Grant,		0
1	necessary for construction of the facilities as well as for the		
	transportation and installation of the equipment.		

4-2 Minutes of Discussions on the 2nd Basic Design Study on the Project for Rehabilitation of the Bwanje Valley Irrigation System in the Republic of Malawi (Commencement of the Second Basic Design Study, July, 2003)

MINUTES OF DISCUSSIONS

ON

THE 2nd BASIC DESIGN STUDY ON THE PROJECT FOR REHABILITATION OF

THE BWANJE VALLEY IRRIGATION SYSTEM

IN

THE REPUBLIC OF MALAWI

In February 2003, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Rehabilitation of the Bwanje Valley Irrigation System (hereinafter referred to as "the Project") to the Republic of Malawi (hereinafter referred to as "Malawi"). Based on the results of the Basic Design Study and in response to an additional request from the Government of Malawi, the Government of Japan decided to conduct the 2nd Basic Design Study on the Project and entrusted the study to JICA.

JICA sent to Malawi the 2nd Basic Design Study Team (hereinafter referred to as "the Team"), which is headed by Mr. Akira Okuyama, Director, 4th Project Management Division, Grant Aid Management Department, JICA, and is scheduled to stay in the country from July 22 to July 29, 2003.

The Team held discussions with the officials concerned of the Government of Malawi 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.

Lilongwe, July 29, 2003

Akira Òkuyama

Leader

Basic Design Study Team

Japan International Cooperation Agency

C. J. Matabwa (Ph.D)

Ag. Principal Secretary

Ministry of Agriculture, Irrigation and

Food Security

The Republic of Malawi

ATTACHMENT

1. Objective of the Project

The objective of the Project is as follows.

- To protect the Bwanje Valley Irrigation System from floods through relocation of the main canal constructed in 1999 under the Japan's Grant Aid Scheme, rehabilitation of the headworks and others
- 2) To stabilize distribution of irrigation water in the Bwanje Valley Irrigation System

2. Components requested by the Government of Malawi

After discussions, the Team reconfirmed that the following components were requested by the Government of Malawi.

- (1) Expansion of shifting of the main canal
- (2) Functional improvement of the settling basin
- (3) Rehabilitation of the gabion works after apron at the headworks
- (4) River training works
- (5) Land leveling after shifting of the main canal
- (6) Construction of a footbridge

3. Components to be adopted in the Project

After discussions, both sides confirmed that the components described below would be adopted in the Project. JICA will assess the appropriateness of the components and will recommend to the Government of Japan for approval.

- (1) Relocation of the main canal
- (2) Functional improvement of the settling basin
- (3) Rehabilitation of the gabion works after apron at the headworks



花山

(4) Land leveling after relocation of the main canal

4. Other relevant issues

- 4-1. Both sides confirmed that relocation of the main canal aims at protecting against floods.
- 4-2. Accompanied with the relocation of the main canal, the farm land between the existing and newly planned main canals will be no further irrigated area and become to be rain-fed. It is required to redistribute farm plots to the farmers concerned or to be settled in a proper procedure. Both sides confirmed that the Ministry of Agriculture, Irrigation and Food Security (hereinafter referred to as "MOAIFS") should be responsible for the redistribution. MOAIFS promised the Team to settle this issue before the implementation of the Project.
- 4-3. On the land leveling, the both sides understood that Malawi side is in charge of land leveling and conducting the leveling at present. It should thus be noted that adopting land leveling in the Project does not mean total support of land leveling but possibility of partial support in considering more efforts made by Malawi side.
- 4-4. Both sides confirmed that the farmers should not use the existing main canal after completion of the new main canal.
- 4-5. Japanese side confirmed that Maļawi side should take necessary measures so that any people do not cross the Namikokwe River in the case of happening the flood.

Mm

D d