Appendix-1 Member List of the Study Team

The study team consists of the following members.

(1) Field Survey

Name	Assignment	Organization						
Akihiko Hosino	Leader	Deputy Resident Representative, JICA Malawi Office						
Takahiro Goto	Project Coordinator	Transportation and ICT Group, Economic Infrastructure Department, JICA						
Teruo Nakagawa	Chief Consultant/ Road Maintenance Planner	Central Consultant Inc.						
Kazumasa Tada	Bridge Designer I	International Engineering Economic Design Corporation						
Shinichi Ueda	Bridge Designer II	Central Consultant Inc.						
Noboru Yokoyama	Natural Condition Surveyor I (Topography, Geology)	Earth System Science						
Kanji Watanabe	Socio-Environmentalist	SOWA Consultant Inc.						
Jun Umeno	Natural Condition Surveyor II (Hydrology)	Central Consultant Inc.						
Masahiro Shiratori	Construction Planner/ Cost Estimator	Central Consultant Inc.						
Shinya Toyosaki	Road Designer	Central Consultant Inc.						

(2) Explanation of the Draft Outline Design

Name	Assignment	Organization					
Sinji Obuchi	Leader	Resident Representative , JICA Malawi Office					
Hiroyuki Yokoi	Project Coordinator	Transportation and ICT Group, Economic Infrastructure Department, JICA					
Teruo Nakagawa	Chief Consultant/ Road Maintenance Planner	Central Consultant Inc.					
Kazumasa Tada	Bridge Designer I	International Engineering Economic Design Corporation					

Appendix-2 Study Schedule

(1) Field Survey

					Donings	Chief	Bridge	Peidos	Manual Continue	Manual Continue	Cost	e.u.	
	_		4	Leader	Project Coordinator	Chief Consultant	Bridge Designer I	Bridge Designer II	Natural Condition Surveyor I	Natural Condition Surveyor II	Estimator	Socio- Environmentalist	Road Designer
No.	Month	Date	4	Akihiko			Kazamasa		Noboru			Kanji Watanabe	Shinya Toyosaki
	-	-	Ď-di	Hoshino	Takahiro Goto	Teruo Nakagawa	Tada	Shinichi Ueda	Yokoyama	Jun Umeno	Masahiro Shiratori	(added by CCI)	(added by CCI)
-	\vdash	22	Mon					<u> </u>	Arrive at Lilong			(800000) 0000	(835.3 0) 000)
2		23	\vdash										
3		24	Toe							OTPI, Visit and d			
4		25	Wed					Visit and discuss	with EAD, Visit	and discuss with \	VB		
- 5		26	Thro					Discuss v	with MOTPL Disc	cuss with RA			Arrive at Lümgere
6		27	Fri						Lilongw	re⇒Mzuzu			
7		28	Sut					St	avey of the site (site of Rukuru Bri	dge)		
8		1	Sun							H .			
9	1				Lilongwe⇒				Survey of the si				Lilongwe
9		2	Mon		Mznzu				survey of the si	ic .			⇒Johannesburg
10		3	Tue					Survey of the sit	c				Johannesburg⇔
11		4	Wed				Survey of	the site Mzuzu	⇒Lilongwe				⇒Hong Kong⇒ Nasita
12		5	Thro			Vis	it and discuss w	ith MOTPI, Visit	and discuss with	RA			
13	1	6	Fri				Discuss	with EAD, DEA	and WB				1
14	1	7	Sat	Collect ma	sterials, Meeting w	ith the study team	members	Lilonewy	⇒Mzuzu		Collect materials		1
14		-	342	Concerns	merias, preeding w	itii tiie stooy resiii	memoers	_			Concernations		
15		8	Sun		Organize	materials			oloration/survey of volume		Organize materials		
16	1	9	Mon		Discus	M/D		,	U.		Discuss M/D		1 1
17	1	10	Tue		"			,	U		,pr		1 1
18		11	Wed		Sign M/D, Report	to EOI and RCA			σ	Sion M	D. Report to EOJ as	od BCA	1 1
-			\rightarrow		Lilongwe⇒							Lilongwe⇒	
19		12	Thru		Johannesburg	Collect n	atenals	,	σ	Collect	materials	Johannesburg	
20		13	Fri		Johannesburg⇒ Hong Kong	Lilongwe=	⇒Мгиги		v .		II .	Johannesburg⇒ Hong Kong	
21	1	14	Set		Hong Kong⇒	Survey of	the site	,	σ		II .	Hong Kong™N seits	1 1
			Н		Narita			No arte e estate	4	***	Survey of the		1 1
22		15	Sun			Survey of Mzuzu≕I			the study team ers, etc.	Lilongwe⇒ Mzuzu	procurement		
-	3					Collect n		e	il and anti-		condition	1	
23		16	Mon						il exploration	Survey of the site		-	
24		17	Tue			,,,			σ	"	"		
25		18	Wed			,,,		l '	7	"	Lilongwe≕ Dar es Salaam		
26		19	Thro			,17			σ	//	Survey of the]	
-		_							σ		procurement condition.	-	
27		20	Fri							"	,,,	-	
28		21	Sat			Л			U	"	,,,		
29		22	Sun			Meet	ing with the stud	dy team members	, etc.	Mzuzu⇒ Lilongwe	Dar es Salaam⇒ Johannesburg		
30	1	23	Mon			Collect n	aterials	Soil ext	doration	Collect materials	Survey of the	1	
\vdash			Н								procures est condition.	-	
31		24	Tox			,,,			T .	"	.//	ļ	
32		25	Wed			.,,			7	"	,rr		
33		26	Thro			.07		1	U	"	IT]	
34		27	Fri			Collect materials	Prepare a report		σ	//	III		
35		28	Set			,,,	,,,		y .	"	Johannesburg=]	
36		29	Sun				M	eeting with the st	udy team member	rs. etc.	Lilongwe	1	
37		30	Mon			Collect materials			doration	Collect materials	Collect materials	1	
-			Н				Lilongwe					1	
38		31	Tue			//	Johannesburg	,	U	//	"		
39		1	Wed			Prepare a report	Johannesburg⇒ Hong Kong		y .	Prepare a report	JF		
40		,	Thro			"	Hong Kong ¹⁰ N seits		σ	, ,,	17	1	
\vdash		2	Н			Report to EOJ	Trong stong or preside			Report to EOJ		1	
41		3	Fri			and JICA			y .	and JICA	DT		
42		4	Set			Prepare a report		,	7	Prepare a report	л		
43	1	5	Sun			Lilongwe			y .	Lilongwe⇒	Organize materials	1	
\vdash		Н	Н			Johannesburg Johannesburg⇒				Johannesburg Johannesburg⇒	_	-	
44		6	Mon			Hong Kong			T .	Hong Kong	Collect materials]	
45		7	Tox			Hong Kong⇒Nurita			σ	Hong Kong⇒N anita	JF		
46	4	8	Wed						y .		Л		
47	1	9	Thu					,	UT.		,rr	1	
48	1	10	Fri					,	σ		Prepare a report	1	
49		11	Sat						U		n n	1	
-		-	Н								Lilongwe⇒	1	
50		12	Sun					Mzuzu≕	Lilongwe		Johannesburg		
51		13	Mon					Meeting about	soil exploration		Johannesburg		
52		14	Tue					Lilongwe=>)	ohannesburg		II .]	
53	1	15	Wed					Johannesburg	⇒Hong Kong		Johannesburg⇔	1	
54	1	16	Thro					_	ng⇒Narita		Hong Kong Hong Kong⇒Narita	1	
	_	20							_				

(2) Explanation of the Draft Outline Design

Ma	nth	Date	he week	Leader	Project Coordinator	Chief Consultant	Bridge Designer I						
No.	Month	Da	Day of the week	Shinji Obuchi	Hiroyuki Yokoi	Teruo Nakagawa	Kazumasa Tada						
1		7	Fri		14:05 Arrive at Lilong	we 16:00 Meeting at	JICA Malawi office						
2		8	Sat		Site inspection (existin	g Rukuru Bridge)							
3		9	Sun		Mzuzu→Lilongwe 00-10:30 Outline design and outline explanation (MOTPI&RA)								
4		10	Mon	9:00-10:30 Outline des									
5	8	11	Tue	0:00-11:30 Minutes of Discussions (MOTPI&RA)									
6	0	12	Wed	15:00 Report to Malay	0:00 Sign minutes (MOTPI, RA, Ministry of Finance) 5:00 Report to Malawi Embassy of Japan 6:30 Report to JICA Malawi office								
7		13	Thu		Lilongwe 14:55→Johannesburg 17:25								
8		14	Fri		Johannesburg 16:30→								
9		15	Sat		→12:05 Hong Kong 1:	5:10→Narita 20:20							

Appendix-3 List of Parties Concerned in the Recipient Country

(1) Ministry of Transport and Public Infrastructure (MOTPI)

Mr.Francis B Chinsinga Secretary

Mr.Collins K Kumangirana Director of Roads

(2) Road Authority(RA)

Mr.Paul J Kulemeka Chief Executive Officer

Mr.Placid Kasakatira Director of Planning and Design

Mr.Benjamin C Kapoteza Director of Construction
Mr.Adrian Mthini Director of Maintenance
Mr.Wi Chihana Construction Engineer

Mr.Okendeni Kondowe Senior Engineer

Mr.Peter Makwinja Environmental Planner

Mr.Francis Dimu RDM Engineer

< Regional Office-North >

Mr.Mac Leod Phiri Regional Engineer-North
Mr.Dominic Mwafulirwa Maintenance Engineer-North

Mr.T Muwasinga Road Engineer

(3) Emvironmental Affairs Department (EAD)

Ms.Juwo Sibale Environmental Officer

(4) Department of Energy Affairs

Mr.Lewis B. Mhango Chief Energy Officer

(5) Malawi Energy Regulatory Authority(MERA)

Mr. Welton D.Saiwa Director of Energy Mr. Wilfred Z. Kasakula Senior Engineer

(6) Ministry of Finance

Mr.Lukes Kalilombe Principal Economist
Mr.Davie Wirima Deputy Director

(7) African Development Bank (AfDB)

Mr.Benson B.Nkhoma Infrastructure Specialist

(8) Roads Fund Administration (RFD)

Mr.Francis Haiya Head of Audit
Mr.Ezra Dzoole Company Secretary

(9) Department of Mines

Mr.Ellason S. Kaseko Director of Mines

(10) Embassy of Japan

Mr.Shinichi Ogawa First Secretary
Mr.Hiroshi Matsumoto Deputy Chief
Ms.Takako Mitsumori Researcher

(11) JICA Malawi Office

Mr.Shinji Obuchi Resident Representative

Mr.Akihiko Hoshino Deputy Resident Representative Mr.Shunsuke Takatoi Assistant Resident Representative Mr.Daisuke Saito Assistant Resident Representative

Kapalamula Godfrey Senior Programme Officer

(1) Field Survey

MINUTES OF DISCUSSIONS ON THE PREPARATORY SURVEY ON THE PROJECT FOR REPLACEMENT OF SOUTH RUKURU BRIDGE ON THE MAIN ROAD M001 IN THE REPUBLIC OF MALAWI

Based on the results of the Preliminary Study, the Government of Japan decided to conduct a Preparatory Survey on the Project for Replacement of South Rukuru Bridge on the Main Road M001 (hereinafter referred to as "the Project") and entrusted the survey to Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to the Republic of Malawi (hereinafter referred to as "Malawi") the Preparatory Survey Team for the Field Survey (hereinafter referred to as "the Team"), which is headed by Mr. Akihiko Hoshino, Deputy Resident Representative of JICA Malawi Office, and is scheduled to stay in the country from February 23rd, 2009 to April 14th ,2009.

The Team held discussions with the officials concerned of the Government of Malawi and conducted a field survey at the Project site.

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

Lilongwe, March 11, 2009

Akihiko Hoshino

Leader

Preparatory Survey Team

Japan International Cooperation Agency

Francis B. Chinsinga

Principal Secretary 1

Ministry of Transport and Public Works

The Republic of Malawi

Paul J. Kulemeka

Chief Executive Officer

Roads Authority

The Republic of Malawi

Randson P. Mwadiwa

Secretary to the Treasury

Ministry of Finance

The Republic of Malawi

ATTACHMENT

1. Project Title

Both sides agreed that the title of the Project is "The Project for Replacement of South Rukuru Bridge on the Main Road M001".

2. Objective of the Project

The objective of the Project is to improve the smooth flow and safety of transport on the Main Road M001 through the replacement of the South Rukuru Bridge.

3. Project Site

The South Rukuru Bridge is in Rumphi District (Northern Malawi) and is on the Bwengu - Chiweta section of the Main Road M001. The site of the Project is shown in Annex-1.

- 4. Responsible and Implementing Organizations
- 4-1. The responsible Ministry of the Project is the Ministry of Transport and Public Works. The organization chart of the responsible Ministry is shown in Annex-2.
- 4-2. The implementing organization of the Project is the Roads Authority. The organization chart of the implementing organization is shown in Annex-3.

5. Items requested by the Government of Malawi

After discussions with the Team, both sides confirmed that the items requested by the Malawian side are as follows;

5-1.Components

- -Construction of reinforced concrete bridge with double lane
- -Bank protection
- -Construction of approach roads
- -Pedestrian walkway
- -Removal of stones and driftwoods before the construction

5-2. Technical matters

- 5-2-1. Both sides agreed that the Japanese side is responsible for removal of stones and driftwoods at the proposed bridge construction area before commencement of construction.
- 5-2-2. Both sides agreed that the location of the new bridge is downstream by approximately 15 to 20m from the existing bridge
- 5-2-3. Both sides agreed that the vertical height of the new bridge is approximately 2m

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higher than the height of the existing bridge 5-2-4.Lay-bys at the side of the new access road

Details of the location and contents of design are shown in Annex-4. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

- 6. Japan's Grant Aid Scheme
- 6-1. The Malawian side understands the Japan's Grant Aid Scheme and necessary measures to be taken by the Government of Malawi. The Team explained the procedures for the Project described in Annex-5.
- 6-2. The Malawian side will take 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. JICA Guidelines for Environmental and Social Considerations
- 7-1.Malawian side recognized that the current JICA Guidelines for Environmental and Social Considerations (2004) and Malawi EIA Guidelines (1997) would be applied in order to ensure that the Project meets environmental and social considerations even though JICA is still formulating new Guidelines.
- 7-2. The Malawian side agreed to get basic agreement from the Project Affected Persons (PAPs) including land owners regarding the Project, and to arrange the budget allocation for land acquisition, resettlement and compensation for PAPs before August, 2009, in case any PAPs would be identified at the Project site.
- 7-3. In terms of the environmental consideration process required by Environmental Affairs Department (EAD), both sides agreed that the Malawian side is responsible for final permission from National Environmental Committee of this Project before the end of August, 2009 subject to submission of EIA report by the end of April, 2009.
- 8. Schedule of the Study
- 8-1. The Team will proceed with further studies in Malawi until April 14th, 2009.
- 8-2.JICA will prepare the draft report in English and dispatch a mission in order to explain its contents around August, 2009.

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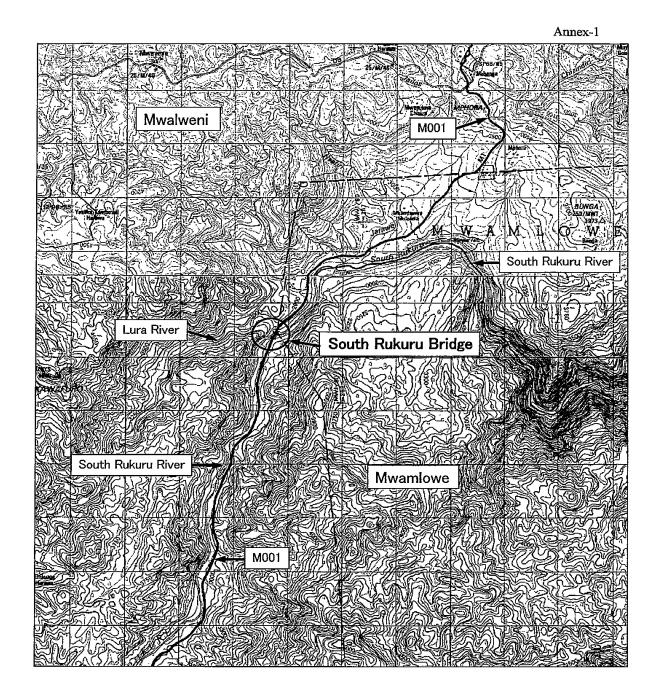
- 8-3.If the contents of the report are accepted in principle by the Government of Malawi, JICA will complete the final report and send it to the Government of Malawi by December, 2009.
- 9. Other Relevant Issues
- 9-1. Both sides agreed that the Malawian side shall secure the land necessary for the Project in due course as stipulated in the Land Acquisition Act of Malawi by the end of August, 2009.
- 9-2. Both sides agreed that the following undertakings shall be taken by the Malawian side at their own expenses;
 - -Budget allocation for the tax exemption of imported materials,
 - -To secure temporary yard(s),
 - -To facilitate access to borrow pit(s) and quarry site(s),
 - -To facilitate access to site(s) for waste disposal,
 - -To maintain the security in the Project area including police patrol,
 - -To maintain the timber deck of the existing bridge in good condition during construction of the new bridge,
 - -To be responsible for maintenance of the completed bridge, and
 - -To dismantle the existing timber bridge and remove piers immediately after completion of the new bridge.
- 9-3. The Malawian side shall secure enough budget and personnel necessary for the operation and maintenance of the facilities implemented by the Project, including the periodical maintenance work after the completion of the Project.
- 9-4. The Team raised the concerns that the river condition at the Project site might be affected by Lower Fufu Hydropower Project.

The Malawian side will take necessary measures for Lower Fufu Hydropower Project in order to avoid the negative impact on the Project.

The Malawian side confirmed that the maximum water supply level is 838 meters.

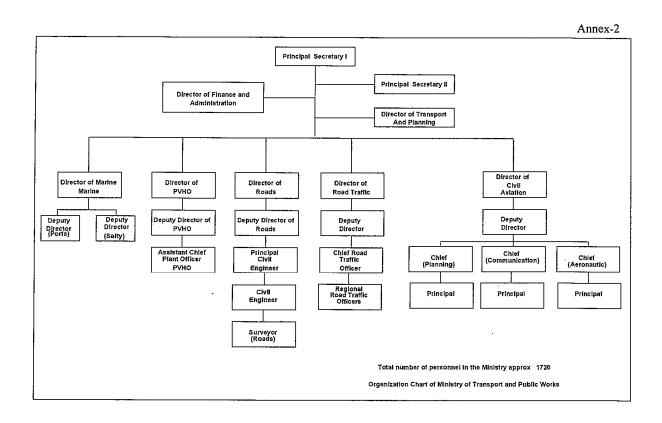
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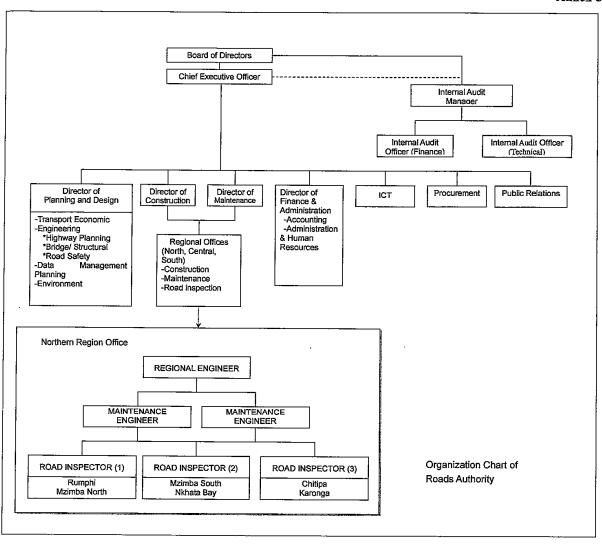
Project Site

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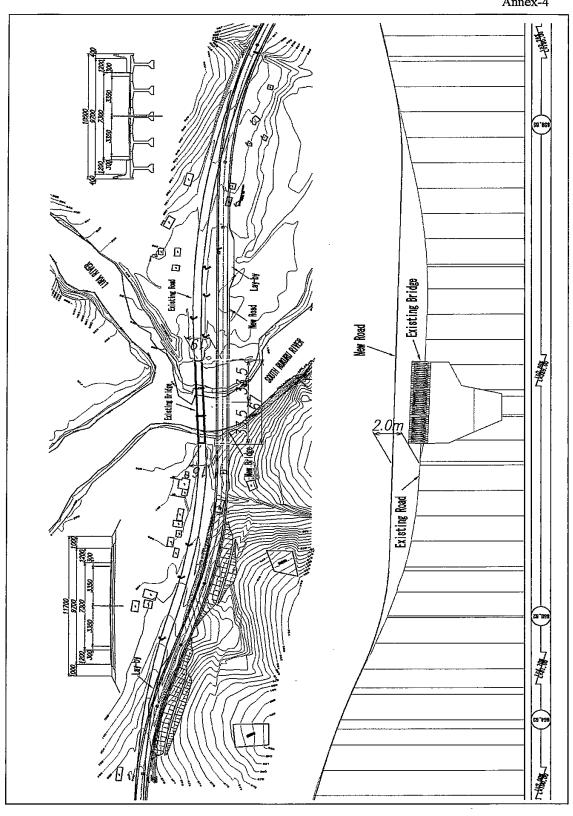


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Annex-3



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Annex-5

JAPAN'S GRANT AID

The Grant Aid 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. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

Japan's Grant Aid scheme is executed through the following procedures:

Survey (Preparatory Survey (hereinafter referred to as "the Survey)conducted

by JICA)

Appraisal & Approval (Appraisal by the Government of Japan (hereinafter referred to as

"the GOJ"), and Approval by the Cabinet)

Determination of Implementation

(The Notes exchanged between the GOJ and a recipient country)

Implementation (Implementation on the basis of the Grant Agreement (hereinafter

referred to as "the G/A") concluded between JICA and a recipient

country)

Firstly, JICA conducts the Survey using (a) Japanese consulting firm(s).

Secondly, the GOJ appraises the project to see whether or not it is suitable for Japan's Grant Aid Scheme, based on the Survey report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Thirdly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes (hereinafter referred to as "the E/N") signed by the GOJ and the recipient country.

Finally, for the implementation of the project, JICA and the Government of the recipient country conclude the G/A to make payment of the grant and assist in such matters as preparing tenders, contracts and so on.

2. Preparatory Survey

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be singed between the GOJ and the Government of the recipient country to make a plead for assistance, which is followed by the conclusion of the G/A between JICA and the Government of the recipient country to define the necessary articles to implement the project, such as payment conditions, responsibilities of the Government of the recipient country, and procurement conditions.

(2) Eligible source country

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

(3) Necessity of "Verification"

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

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

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as Annex-6

(5) "Proper Use"

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

(6) "Export and Re-export"

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

(7) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an

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

b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(8) Authorization to Pay (A/P)

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

(9) Social and Environmental Considerations

The recipient country must ensure the social and environmental considerations for the Project and must follow the environmental regulation of the recipient country and JICA socio-environmental guideline

(End)

Major Undertakings to be taken by Each Government

NO	Items	То	be covered	To be covered by
		by	Grant Aid	Recipient side
1	To secure land			•
2	To clear, level and reclaim the site when needed			•
	Relocation, improvement and/or repair of existing utilities(power lines, telecommunication lines, water lines, etc.), if necessary			•
	To bear the following commissions to a bank of Japan for the banking services based upon the B/A			
	1) Advising commission of A/P			•
	2) Payment commission			•
	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country			
	1) Marine(Air) transportation of the products from Japan to the recipient country		•	
	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		•	
	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work			•
	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contract			•
-	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid			•
_	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for the transportation and installation of the equipment			•

MINUTES OF DISCUSSIONS ON THE BASIC DESIGN STUDY ON THE PROJECT FOR REPLACEMENT OF SOUTH RUKURU BRIDGE ON THE MAIN ROAD M001

IN THE REPUBLIC OF MALAWI

(Explanation on Draft Basic Design Report)

From February to April 2009, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Basic Design Study Team on the "Project for Replacement of South Rukuru Bridge on the Main Road M001" (hereinafter referred to as "the Project") to the Republic of Malawi (hereinafter referred to as "Malawi"), and through discussions with Malawi side, field survey, and technical examination of the results in Japan, JICA prepared the draft basic design report of the study.

In order to explain and to consult with the officials concerned of the Government of Malawi on the components of the draft report, JICA sent to Malawi the Basic Design Explanation Team (hereinafter referred to as "the Team"), headed by Mr. Shinji Obuchi, Chief Representative, JICA Malawi Office, from August 7 to 12, 2009.

As a result of discussions, both sides confirmed the main items described in the attached sheets.

Lilongwe, August 12, 2009

Shinji Obuchi

Leader

Basic Design Explanation Team

Japan International Cooperation Agency

Francis B. Chinsinga

Principal Secretary I

Ministry of Transport and Public Infrastructure

The Republic of Malawi

Paul J. Kulemeka

Chief Executive Officer

Roads Authority

The Republic of Malawi

Dr. Naomi Ngwira

Director for Debt and Aid

Ministry of Finance

The Republic of Malawi

ATTACHMENT

1. Components of the Draft Report

The Malawian side agreed and accepted in principle the components of the draft report of the Basic Design Study explained by the Team. As the result of the Study, the proposed alignment of the new South Rukuru Bridge is shown in Annex-1.

2. Japan's Grant Aid scheme

Malawian side understood the Japan's Grant Aid scheme and the necessary measures to be taken by the Government of Malawi as described in Minutes of Discussions signed on March 11, 2009.

3. Schedule of the Study.

JICA will complete the final report in accordance with the confirmed items and send it to the Government of Malawi by the end of December, 2009.

4. Cost Estimation

Both sides agreed that the Project Cost Estimation as attached in Annex-2 should never be duplicated or released to any third parties before the signing of all the Contract(s) for the Project.

5. Other Relevant Issues

- 5-1. The Team confirmed that the Malawian side will hold the National Council for the Environment meeting, which is the final board for the endorsement of the Environmental Impact Assessment (EIA), and get EIA certificate by the end of August, 2009. As soon as the certificate is issued, it should be sent to the Embassy of Japan/IICA Malawi office.
- 5-2. Both sides agreed that the Malawian side will arrange the budget allocation for land

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acquisition and clearance of related housing and compensation for the Project Affected Persons (PAPs) right after getting the EIA certificate.

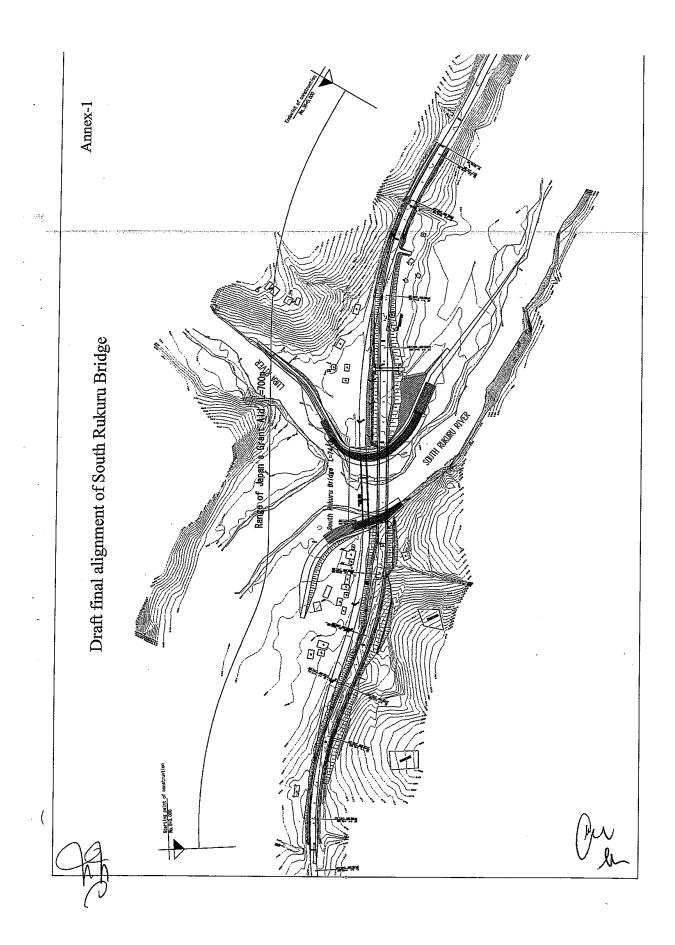
- 5-3. Both sides agreed that the Malawian side shall obtain basic agreement signed by
 the PAPs by the end of August, 2009. As soon as the agreement is obtained, it
 should be sent to the Embassy of Japan/JICA Malawi office
- 5-4. Malawian side confirmed to implement the necessary work taken by the Malawianside at their own expenses based on the Minutes of Discussions signed on March 11, 2009.

Annex-1 Draft final alignment of South Rukuru Bridge

Annex-2 Project Cost Estimation
Annex-3 Environmental Checklist

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	Environmental Checklist	Checklist		Annex-3
1	Category	Environmental Item	Main Check Items	onmental Considerations
	Permits and Explanation	(1) EIA and Environmental Permits	 Have EIA reports been officially completed? Asve EIA reports been approved by authorities of the host country's government? Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government? 	① The EIA report has been completed. ②③ The EIA report has been completed. ③③ The EIA report was submitted to Environmental Affairs Department(EAD) on June 22, 2009. EAD held the Technical Committee on the Environment (TCE) on July 3, 2009. Based on the iseults of the TCE, the revised EIA report was submitted to EAD on August 4, 2009. If the report is endorsed by the National Council for the Environment, the certificate will be issued by the and of August, 2009. ④ The licence of quarrying sites and borrow pits should be obtained from Ministry of Minies, Energy and Environment by the Contractor after an EIA
		(2) Explanation to the Public	① Are contents of the project and the potential impacts adequately explained to the public based on appropriate procedures, including information disclosure? Is understanding obtained from the public? ② Are proper responses made to comments from the public and regulatory authorities?	The public consultation was conducted at the preliminary study stage in September 2008. The general agreement of the local people have been obtained. Under the EIA report review, the report will be opened to the public. The interview survey to the local people was conducted at the preparatory study stage in March 2009. The results were reflected in the mitigation.
		(1) Air Quality	① Is there a possibility that air pollutants emitted from various sources, such as vehicle traffic will affect ambient air quality? Does ambient air quality comply with the country's ambient air quality standards? ② Where industrial areas already exist near the route, is there a possibility that the project will make air pollution worse?	①② The project site was located in mountain region far from urban area. Serious air pollution will not occur because of the limited traffic volume.
	2 Mitigation Measures	(2) Water Quality	■ Is there a possibility that soil runoff from the bare lands resulting from earthmoving activities, such as cutting and filling will cause water quality degradation in downstream water areas? ② Is there a possibility that surface-runoff from roads will contaminate water sources, such as groundwater? ③ Do effluents from various facilities, such as stations and parking areas/service areas comply with the country's effluent standards and ambient water quality strandards? Is there a possibility that the effluents will cause areas that do not commly with the country's emistry wearened.	Turbid water will generate in the construction works. There are no intake facilities in and down the site. (2) Impact on water resources of runoff from road surface will not occur. (3) Effluent from parking areas will comply with the effluent standards.
- · 	~	(3) Noise and Vibration	⊕ Do noise and vibrations from vehicle and train traffic comply with the country's ⊕ Serious noise and vibration will not focur because of the limited traffic standards?	W Serious noise and vibration will not occur because of the limited traffic volume.
	3 Natural Environment	(1) Protected Areas	(1) Protected Areas international treaties and conventions? Is there a possibility that the project will affect the protected areas?	There are no protected areas in and around the site.

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Environmental Checklist	Checklist		, was a second of the second o
Calegory	Environmental Item	Main Check Items	Confirmation of Environmental Considerations
3 Natural	(2) Bcosystem	oject site encompass primeval forests, tropical rain forests, uluable habitats (e.g., coral reefs, mangroves, or tidal flats)? oject site encompass the protected habitats of endangered species the country's laws or international treaties and conventions? It ecological impacts are anticipated, are adequate protection to to reduce the impacts on the ecosystem? It oreduce the impacts on the ecosystem? It is protection measures taken to prevent impacts, such as disruption tutes, habitat fragmentation, and traffic accident of wildlife and pssibility that installation of roads will cause impacts, such as forest, poaching, desertification, reduction in welland areas, and ecosystems due to introduction of exotic (non-native invasive) sits? Are adequate measures for preventing such impacts ere the project site is located at undeveloped areas, is there a the new development will result in extensive loss of natural	① There are no ecological valuable habitats in and around the site. ② The habitats of endangered species have not been identified in and down the site. ③ Significant ecological impact will not occur. ④ Migration fish species running up through the site have not been identified. ⑤③ The new bridge will not cause destruction of forest and poaching because of reconstruction of existing bridge.
	(3) Hydrology	On virounteness:	① Impact on surface and ground water will not occur.
	(4) Topography and Geology	(4) Topography and failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed? (a) Is there a possibility that civil works, such as cutting and filling will cause slope Geology (b) Topography and failures or landslides? Are adequate measures considered to prevent slope failures or landslides? (a) Is there a possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites? Are adequate measures taken to prevent soil runoff?	①② There are no slope failures or landslides in and around the site. ③ Serious soil runoff will not occur.

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Annex-3	Confirmation of Environmental Considerations	© Removal of total four houses or barns without residents will be required. © The local government have conducted the explanation to the local people and estimation of the compensation. © Shops and venders around existing bridge will be able to continue their business after the completion. ©©®© Any resettlement will not be required. The local government will negotiate with the owners of houses, barns, agricultural land and trees that are objects for monetary compensation.	(DOSOLO The new bridge will not cause significant impacts on livelihood of the local people and road traffic because of reconstruction of existing bridge. Shops and venders around existing bridge will be able to continue their business after the completion. © Impact on sun shading and radio interference will not occur. ① There are no haritage in and around the site.
		tary te on	boility that the associated workers? acts, such as fivelihood, or ting these impacts? e living conditions to measures at a fiseases, such as ed with the project? y? and traffic in the on and traffic cate the movement uch as bridges) reheological, measures considered assures considered as local landscape?
Checklist	Environmental Item	(1) Resettlement	(2) Living and Livellihood (3) Heritage (4) Landscape
Environmental Checklist	Category		4 Social Bavironment

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Environmental Checklist	Checklist		Annex-3
· Category .	Environmental Item		Confirmation of Environmental Considerations
A Social Environment	(5) Ethnic Minorities and Indigenous Peoples	 Where ethnic minorities and indigenous peoples are living in the rights-of-way, are considerations given to reduce the impacts on culture and lifestyle of ethnic minorities and indigenous peoples? Does the project comply with the country's laws for rights of ethnic minorities and indigenous peoples? 	①② . The site is not area where ethnic minorities and indigenous people having unique culture and lifestyle are living
	(1) Impacts during Construction		①②③④ To mitigate environmental impacts during construction phase, the environmental management plan (BMP) is formulated in the BIA report. The contractor should practice the BMP.
o Others	(2) Monitoring	① Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? ② Are the items, methods and frequencies included in the monitoring program judged to be appropriate? ② Does the proponent establish an adequate monitoring framework (organization, personne), equipment, and adequate budget to sustain the monitoring framework)? ④ Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory anthorities?	O②③④ To manage environmental impacts during construction phase, the environmental monitoring plan is formulated in the EIA report. The supervision consultant should establish the monitoring plan.
6 Note	Reference to Checklist of Other Sectors	① Where necessary, pertinent items described in the Forestry Projects checklist should also be checked (e.g., projects including large areas of deforestation). ② Where necessary, pertinent items described in the Power Transmission and Distribution Lines checklist should also be checked (e.g., projects including installation of power transmission lines and/or electric distribution facilities).	
:	Note on Using Environmental Checklist	① If necessary, the impacts to transboundary or global issues should be confirmed, if necessary (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming).	
Regarding the cavironmental In cases where Bryironmental Shrironmental country and lo	Regarding the term "Country's Standards" mentioned environmental considerations are made, if necessary. In cases where local environmental regulations are yell Buvironmental checklist provides general environmento country and locality in which it is located.	1) Regarding the term "Country's Standards" mentioned in the above table, in the event that environmental standards in the country where the project is located diverge significantly from international standards, appropriate cuvironmental considerations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan' experience). 2) Buvironmental checklist provides general environmental items to be checked. It may be necessary to add or delete an item taking into account the characteristics of the project and the particular circumstances of the country and locality in which it is located.	te the project is located diverge significantly from international standards, appropriate risons with appropriate standards of other countries (including Japan' experience), account the characteristics of the project and the particular circumstances of the
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Functional Building Off Paul Kagame Private Bag B346 Lilongwe 3, Malawi.



Tel: +265 (0) 1 759 154/156/468 Fax: +265 (0) 1 750 307 Email: nra@nramw.com Website: www.nramw.com

Ref No.: FIM/13/9

17th August 2009

The Leader
Basic Design Explanation Team
Japan International Cooperation Agency
Japan/Malawi Office

Copy:

The Secretary for Transport and Public Infrastructure

Ministry of Transport and Public Infrastructure

Capital Hill Lilongwe

Attention: The Director of Roads

The Director

Environmental Affairs Department

City Centre Lilongwe

Dear Sir

Project Affected Persons (PAPS) report under the proposed South Rukuru bridge on M1 in Rumphi District

In line with the Minutes of Discussions on the basic design study on the project for replacement of South Rukuru Bridge on the main road M1 in the Republic of Malawi (Explanation on Draft Basic Design Report), item 5-3 under the attachment, we are please to submit the attached PAPS basic agreement to the project.

It is hoped that you will find this in order.

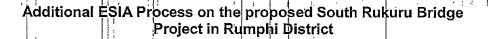
Yours faithfully,

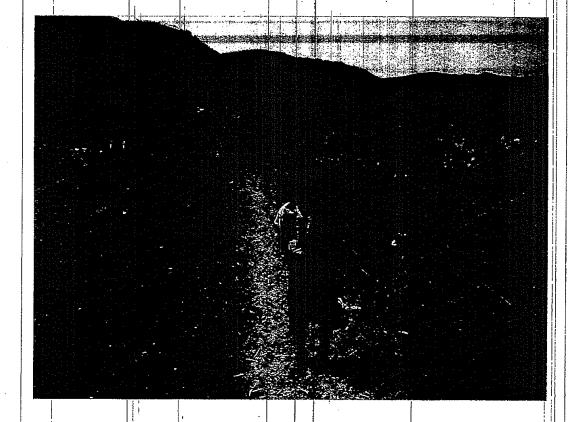
Eng Paul J Kulemeka
Chief Executive officer

Encl

PCK/pck/cpm







Report on Public Disclosure and Endorsement of the Proposed Project by Project Affected Persons (PAPS) as per meetings held on the 13th and 14th.

August 2009

August, 2009

1.0 Introduction

It is a requirement by law under the Environmental Management Act 1996 that new bridge construction projects require a full EIA study to enhance positive impacts and avoid and mitigate negative impacts to ensure sound sustainable environmental management of the surrounding environment.

It was against this background that the Environmental and Social Management unit in the Department of Planning and development carried out the Public Disclosure as part of the ESIA study report that the Roads Authority has prepared through Henderson and Partners.

2.0 ESIA Disclosure

The Roads Authority Environmental Specialist informed the gathering that the study commissioned identified the following adverse impacts:

- Soil erosion due to the re-alignment of the bridge and approach roads
- Water resources degradation with respect to quality and reduced quantities due to usage in the construction purposes
- Land degradation due to possible brick making sand excavation, excavating of borrow sites and guarry establishment
- Disturbance of natural ecosystems during site clearing which will result in cutting of trees, soil cutting and filling during construction of the approach roads
- Noise pollution and Vibration due to heavy plant and vehicles to be used on site
- Air pollution from dust and particulate matter from exhaust fumes and earthworks
- Water contamination due to possible poor waste management and spillage of oils and other solvents to be used on the project
- Accident- vehicular, health and safety accidents during the construction works
- Relocation and resettlement of project affected persons (PAPS)
- Increased transmission of Sexual Transmitted Infections- due to the influx of migrant and construction workers

- Loss of business opportunities due to the re-alignment of the road and the bridge, demolition of the trading centres buildings and resettlement elsewhere
- Cultural disruption due to the advent of foreign workers in the area
- Increase in traffic accidents after commissioning the bridge and road.

The Roads Authority Environmental Specialist informed the gatherings that the ESIA study had identified mitigation measures to avoid and mitigate the negative impacts outlined above. The measures include, but not limited to:

- Designing and constructing the road in such a way to prevent unwarranted cutting and filling operations
- Management of water resources by ensuring that hazardous and non biodegradable substances are properly disposed of and not throwing/ draining them into the two rivers (South Rukuru and Lura)
- Air pollution from dust will be controlled and checked by water spraying as a
 palliative measure; while particulate matter will be addressed by charging the
 contractor to constantly service the plant and vehicles being used at site
- Water contamination will be checked by water quality monitoring and enforcement of waste management practices that do not allow dumping of hazardous, degradable and non degradable materials in use at the site
- Vehicular accidents will be reduced by proper signage and use of rumble surfaces on both sides of the bridge
- In case of business opportunities loss, the design has provided for two laybyes around which chiefs and the local assembly will relocate the business structures to be demolished and thus maintaining or even improving the livelihoods of the PAPS relocated and the area as a whole
- Cultural disruption- chiefs and the contractor's management will create the necessary awareness on HIV/AIDS and STIs transmission with the help of Health Surveillance Assistants in the area and Medical personnel from Rumphi District and Phwezi Foundation.

3.0 PAPS Feedback and Endorsement

Outlined below are issues that transpired during the meetings:

3.1 Project endorsement

The community member unanimously accepted the project with the following caveats:

- What would happen to their crops and properties to be demolished or trees cut down during the bridge road construction?
- Just next to the new bridge there is a road to Mledzi which is very crucial for sustainable livelihoods in the area, what has government in mind to address this?
- The community observed that a lot of accident occur due to the curves into the bridge and asked the designers to smoothen the curve to avoid such accidents.
- The members noted that some villagers' property had not been recorded and this may leave them uncompensated.
- There are two grave in the area, just adjacent to the proposed road to the bridge from the southern side. What would happen to them?
- The chiefs finally asked members from the Rumphi District Assembly to take the compensation matter seriously and compensate the PAPS ensuring that their livelihoods are not only maintained but even enhanced.

In response, members from the Rumphi District Assembly explained to the gathering procedures that are used when it comes to getting at compensation values. They informed the gathering that they will be starting the exercise on Monday the 17th of August and will do the exercise with the Group Village Headmen and the PAPs to ensure transparency and accountability.

For the Junction to Mledzi, and bridge design to reduce accidents, the Environmental Specialist informed the gathering that their concerns had been taken care of and were included in the design of the bridge and the approach roads.

With regard the graves, it was established, after traversing the road boundary that they were located outside the road reserve of the proposed approach road to the bridge and thus posed no threat to this project.

3.2 PAPS Project Endorsement

The PAPS endorsed the project and asked Government to speed up the project. Their signatures and photos are in Annexes 1&2.

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Annex 1: Signatures and Endorsements

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Public Disclosure of the Proposed South Rukuru Bridge in Rumphi District to be constructed by JICA

	Name	Address	Signature	Remarks	Date
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_		MEDKOLD, Rumphi.			13/08/09
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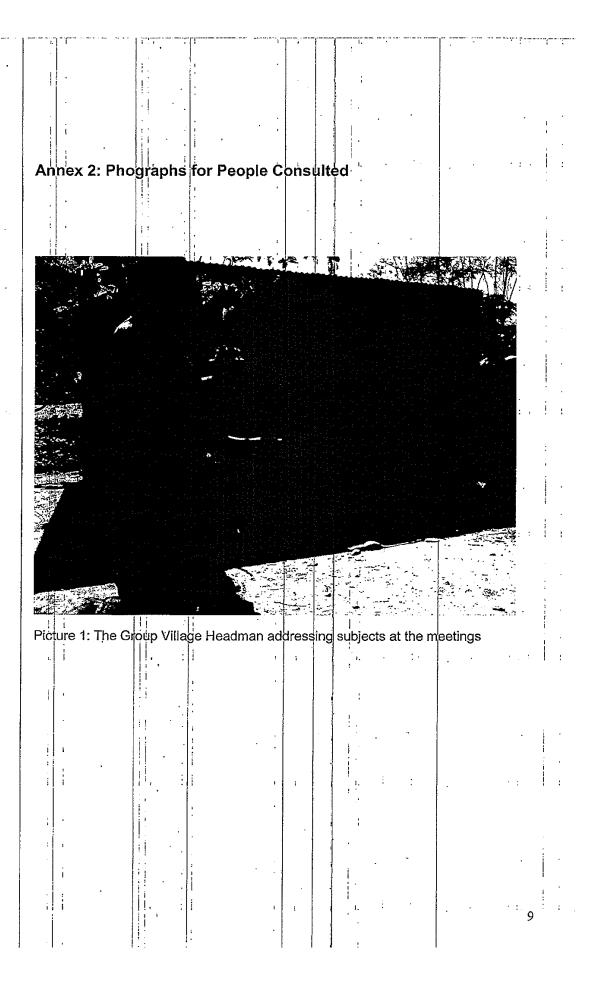
Public Disclosure of the Proposed South Rukuru Bridge in Rumphi District to be constructed by JICA

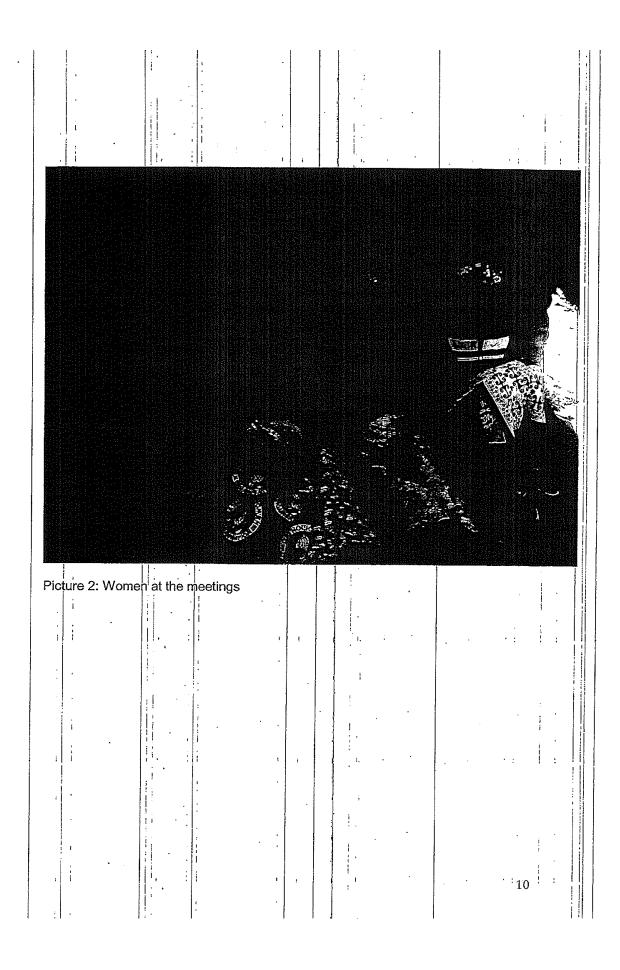
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Public Disclosure of the Proposed South Rukuru Bridge in Rumphi District to be constructed by JICA

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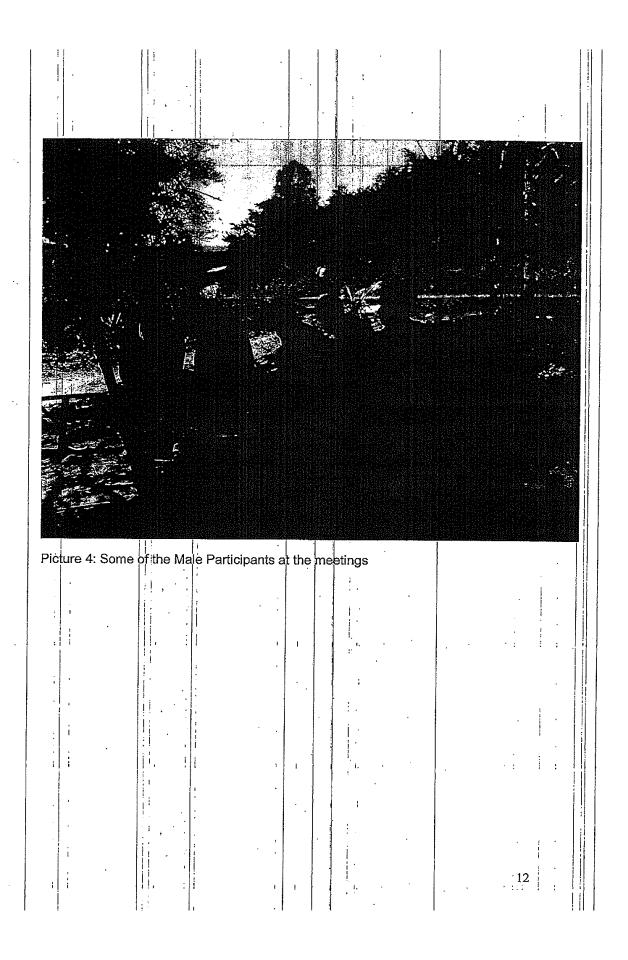


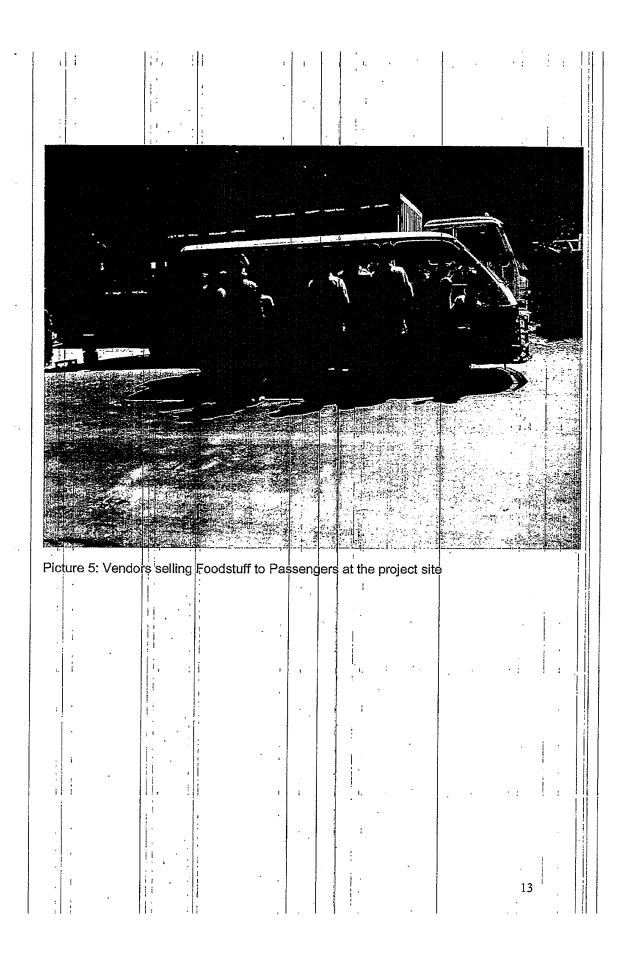


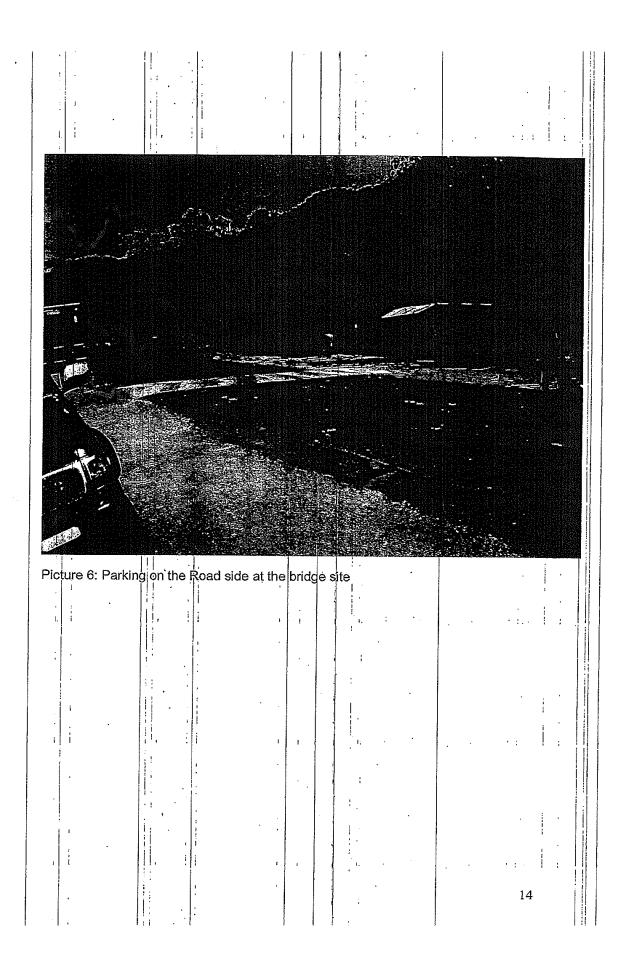


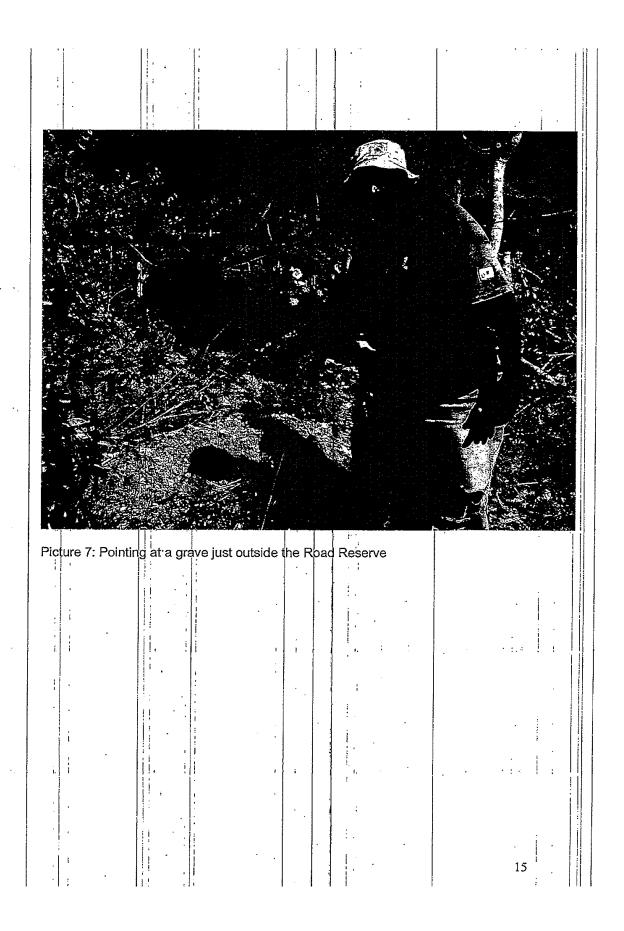
Picture 3: More Female and young participants at the meetings

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NAME OF THE SURVEY: PREPARATORY SURVEY ON THE PROJECT FOR REPLACEMENT OF SOUTH RUKURU BRIDGE ON THE MAIN ROAD NO.1 IN THE REPUBLIC OF MALAWI

No	Title	Form	Original/ Copy	Issued by	Year
_	Annual Economic Report 2008	Book	Copy	Ministry of Economic and Planning and Development	2008
2	MALAWI TRANSPORT COST STUDY	Electronic data	Copy	MOTPI	
3	The Public Sector Investment Program(PSIP)	Book	Copy	Government of Malawi	2008
4	Annual Debt and Aid Report	Book	Copy	Government of Malawi	2008
5	Summary of Project Support Managed Outside Government Systems	Booklet	Copy	Ministry of Finance	2007
9	Budget Summary of MOTPI for 2007/2008 , 2008/2009 , 2009/2010	Booklet	Copy	Government of Malawi	2008
7	Budget Summary for RA for 2006/2007, 2007/2008, 2008/2009	Electronic data	Copy	Roads Authority	2009
8	MOTPI Organizational chart	Electronic data	Copy	MOTPI	2009
6	RA Organizational chart	Electronic data	Copy	RA	2009
10	CONCEPT PAPER ON THE LOWER FUFU HYDROELCTRIC PROJECT	Book	Copy	MERA	2008
11	SATCC standard specs and codes of practice	Electronic data	Copy	SATCC	2001
12	Bridge Design Manual	Electronic data	Copy	Ministry of Works and Supplies	1978
13	Highway Design Manual	Electronic data	Copy	Ministry of Works and Supplies	8261
14	ENVIRONMENTAL IMPACT ASSESSMENT DRAGT REPORT	Booklet	Copy	Henderson and partners	2009
15	Environmental and Social Management Guidelines in the Road Sector	Electronic data	Copy	Roads Authority	2007
16	Earthquake data	Electronic data	Copy	Regional Geological Centre	
17	Meteorological data	Electronic data	Copy	MOMS	