

{Appendices}

1. Member List of the Study Team
2. Study Schedule
3. List of Parties Concerned in the Recipient Country
4. Minutes of Discussions
5. Results of Traffic Volume Count
6. Results of Geological Investigation
7. Results of Topographic Survey

Appendix 1. Member List of the Study Team

Assignment	Name	Organization
Team Leader	Yuusuke KITAMURA	JICA PNG Office Representative
Project Coordinator	Ken IMAI	Grant Aid Management Department, JICA
Chief Consultant	Masahiko MORI	International Division, Chodai Co., Ltd.
Bridge Planner I/ Natural Condition Survey I	Jyunji YASUI	International Division, Chodai Co., Ltd.
Construction Plan /Cost Estimate	Nobuo YONEDA	Japan Engineering Consultants Co., Ltd.
Bridge Planner II	Takashi IDE	Japan Engineering Consultants Co., Ltd.
Natural Condition Survey II	Akira TAKAUE	International Division, Chodai Co., Ltd.

Appendix 2. Study Schedule

1st Delegation (from June 29 to August 27, 2006)

The Project for the Urgent Rehabilitation of Markham Bridge

Date and Time			Leader	Project Coordinator	Chief Consultant	Bridge Designer I	Construction Planner	Bridge Designer II	Natural Conditions Surveyor
			Yusuke Kitamura	Ken Imai	Masahiko Mori	Junji Yasui	Nobuo Yoneda	Takashi Ide	Akira Takaue
1	2006.07.29	Sat			From Japan to PNG				
2	2006.07.30	Sun							
3	2006.07.31	Mon	Courtesy Call on PNG		Courtesy Call On PNG side				
4	2006.08.01	Tue			Explanation on Inception Report to PNG side				
5	2006.08.02	Wed							
6	2006.08.03	Thu			From Port moresby to Lae				Meeting with PNG side
7	2006.08.04	Fri		From Japan to PNG From Port Moresby to Lae	Site Survey		Site Survey	Site Survey	
8	2006.08.05	Sat		Site Survey					
9	2006.08.06	Sun		From Lae to Port Moresby					
10	2006.08.07	Mon		Discussion with PNG side					Discussion
11	2006.08.08	Tue	Discussion with PNG side / Sign on M/D					Discussion	
			Report to EOJ					Report to EOJ	
12	2006.08.09	Wed		From PNG to Tanzania	Meeting with PNG side			Meeting with PNG	
13	2006.08.10	Thu			From Port Moresby to Lae			From Port Moresby to Lae	
14	2006.08.11	Fri			Site Survey	Site Survey		Site Survey	
15	2006.08.12	Sat							
16	2006.08.13	Sun							
17	2006.08.14	Mon							
18	2006.08.15	Tue			Site Survey in Port Moresby				
19	2006.08.16	Wed							
20	2006.08.17	Thu							
21	2006.08.18	Fri							
22	2006.08.19	Sat							
23	2006.08.20	Sun			From Lae to Port Moresby				
24	2006.08.21	Mon							
25	2006.08.22	Tue			Site Survey in Port Moresby	From Lae to Port Moresby		From Lae to Port Moresby	
26	2006.08.23	Wed					Site Survey in Port Moresby		
27	2006.08.24	Thu							
28	2006.08.25	Fri							
29	2006.08.26	Sat							Site Survey in Port Moresby
30	2006.08.27	Sun			From PNG to Japan				

2nd Delegation (from March 11 to March 20, 2006)

The Project for the Urgent Rehabilitation of Markham Bridge

Date and Time			Leader	Project Coordinator	Chief Consultant	Bridge Designer I
			Yusuke Kitamura	Ken Imai	Masahiko Mori	Junji Yasui
1	2007.2.01	Thu			From Japan to PNG	
2	2007.2.02	Fri	Meeting with		Explanation on Basic Design Result to DOW	
3	2007.2.03	Sat			Collection Data	
4	2007.2.04	Sun		From Japan to PNG		
5	2007.2.05	Mon		Explanation on Basic Design Result to DOW		
6	2007.2.06	Tue	Explanation on Basic Design Result to DNPM & DOW			
7	2007.2.07	Wed	Sign on M/D with DNPM & DOW			
8	2007.2.08	Thu		From Port Moresby to Lae	From PNG to Japan	

Transpotation

Stay in Port Moresby

Appendix 3. List of Parties Concerned in the Recipient Country

Organization	Name	Position
Department of National Planning and Monitoring	Ms. Ulato Avei	Deputy Secretary
	Mr. Roland Katak	Assistant Director
	Mr. Mosilayola Kwayaila	Assistant Director
	Mr. Karl Soprl	Assistant Director
	Mr. Willie Koi	Senior Aid Coordination
	Mr. Noel Geti	Senior Aid Coordination Officer
	Ms. Jenny Tummer	Program Officer
	Ms. Bther Pdouf	Assistant Program Officer
	Mr. Koichi Okabe	Project Formulation Advisor
Department of Works	Mr. Roy Harry Mumu	Deputy Secretary
	Mr. Ken Saville	First Assistant Secretary
	Mr. Mekelen Silip	Assistant Secretary
	Mr. Michel Sirabis	Assistant Secretary
	Mr. Andrew Buna	Assistant Secretary
	Mr. Charles Kiki	Project Engineer
	Mr. Bob M.R. Dalymple	Majyk Enterprises Ltd.
Department of Works Morobe Province Lae Office	Mr. John Wakma	Provincial Works Manager
	Mr. Ruben Tara	Provincial Civil Engineer
	Mr. Nako Yarmuk	Senior Supervisor
	Mr. Harry Aoep	Surveyor
	Mr. Nakogamo	
Australian Agency for International Development (AusAID)	Mr. Les Holland	Senior Policy Advisor/Program Director
	Mr. Charles Vee	Senior Program Office

Appendix 4. Minutes of Discussions

4-1 Basic Design Study M/D (August 8, 2006)

**Minutes of Discussions
on the Basic Design Study
on the Project for the Urgent Rehabilitation of Markham Bridge
in the Independent of Papua New Guinea**

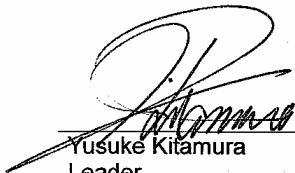
Based on the result of the Preliminary Study which was held on August 2005, the Government of Japan decided to conduct a Basic Design Study on the Project for the Urgent Rehabilitation of Markham Bridge (hereinafter referred to as "the Project"), and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").


JICA sent to the Independent of Papua New Guinea (hereinafter referred to as "PNG") the Basic Design Study Team (hereinafter referred to as "the Team"), headed by Mr. Yusuke Kitamura, Resident Representative, JICA PNG Office, and is scheduled to stay in the country from July 30 to August 27, 2006.


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

In the course of the discussions and the field survey, both sides confirmed the main items described in the attached sheets.

Port Moresby, August 8, 2006


Yusuke Kitamura
Leader
Basic Design Study Team
JICA


Ulato Avei
Deputy Secretary
Department of National Planning and
Monitoring
PNG


Roy Mumu
Deputy Secretary
Department of Works
PNG

ATTACHMENT

1. Objective of the Project

The objective of the Project is to undergo urgent rehabilitation of Markham Bridge.

2. Project Site

The Project site is in Huon District about 15km from Lae Port along Lae-Wau Road in Morobe Province, as shown in Annex-1.

3. Responsible and Implementing Organization

- The responsible and implementing agency is Department of Works.
- The organization of the Department is shown in Annex -2.

4. Items Requested by the Government of PNG

As the result of discussions, requested components were confirmed as below:

- Rehabilitation of the substructure
- Rehabilitation of the superstructure
- Repair of approach road pavement
- Enforcement of the bank protection on the Lae side

The final components of the Project will be decided after further studies, and JICA will assess the appropriateness of the request and will report to the Government of Japan.

5. Japan's Grant Aid Scheme

The PNG side understands the Japan's Grant Aid scheme explained by the Team, as described in Annex-3.

6. Environmental and Social Considerations

The Team explained the outline of JICA Environmental and Social Considerations Guideline (hereinafter referred to as "the JICA Guideline") to the PNG side. The PNG side took the JICA Guideline into consideration, and shall complete the necessary procedures.

7. Schedule of the Study

- (1) The consultants will proceed to further studies in PNG by August 27, 2006.
- (2) JICA will prepare the draft report and dispatch a mission to PNG in order to explain its contents after receiving the official documents mentioned at clause 8 (2) of this

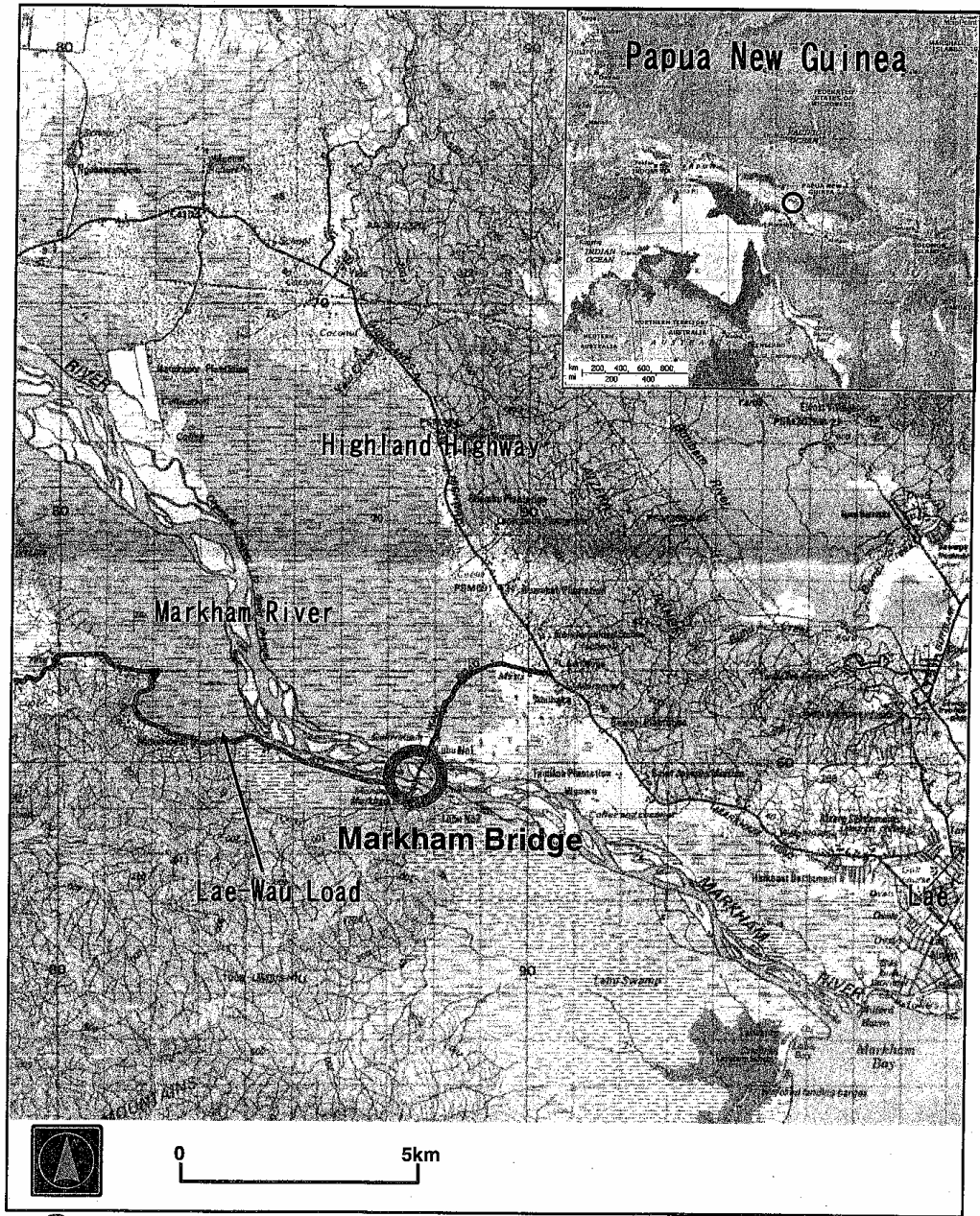
attachment.

- (3) When the contents of the report are accepted in principle by the Government of PNG, JICA will complete the final report and send it to the Government of PNG by March 2007.

8. Other Relevant Issues

- (1) The PNG side should secure the necessary land for the Project, including coverage of expenses to be borne from the procedures and response to the local residents.
- (2) The PNG side agreed that it would implement the following articles by November 30, 2006, and inform the results of the Japanese side in writing by the same date.
 - ① Completion of the expropriation and/or land lease rights of the necessary land for the Project.
 - ② Making an agreement in writing on that the local residents in the Project area will cooperate for the smooth implementation of the Project.
 - ③ Setting up a coordination committee with the concerned parties (local government, police, DOW, and the local residents, etc.), and formulating daily as well as emergency security measures adequately responsible to the sudden change of security situation.
- (3) The PNG side will answer to the Questionnaire in writing, which the Team handed to the PNG side, by August 21, 2006.



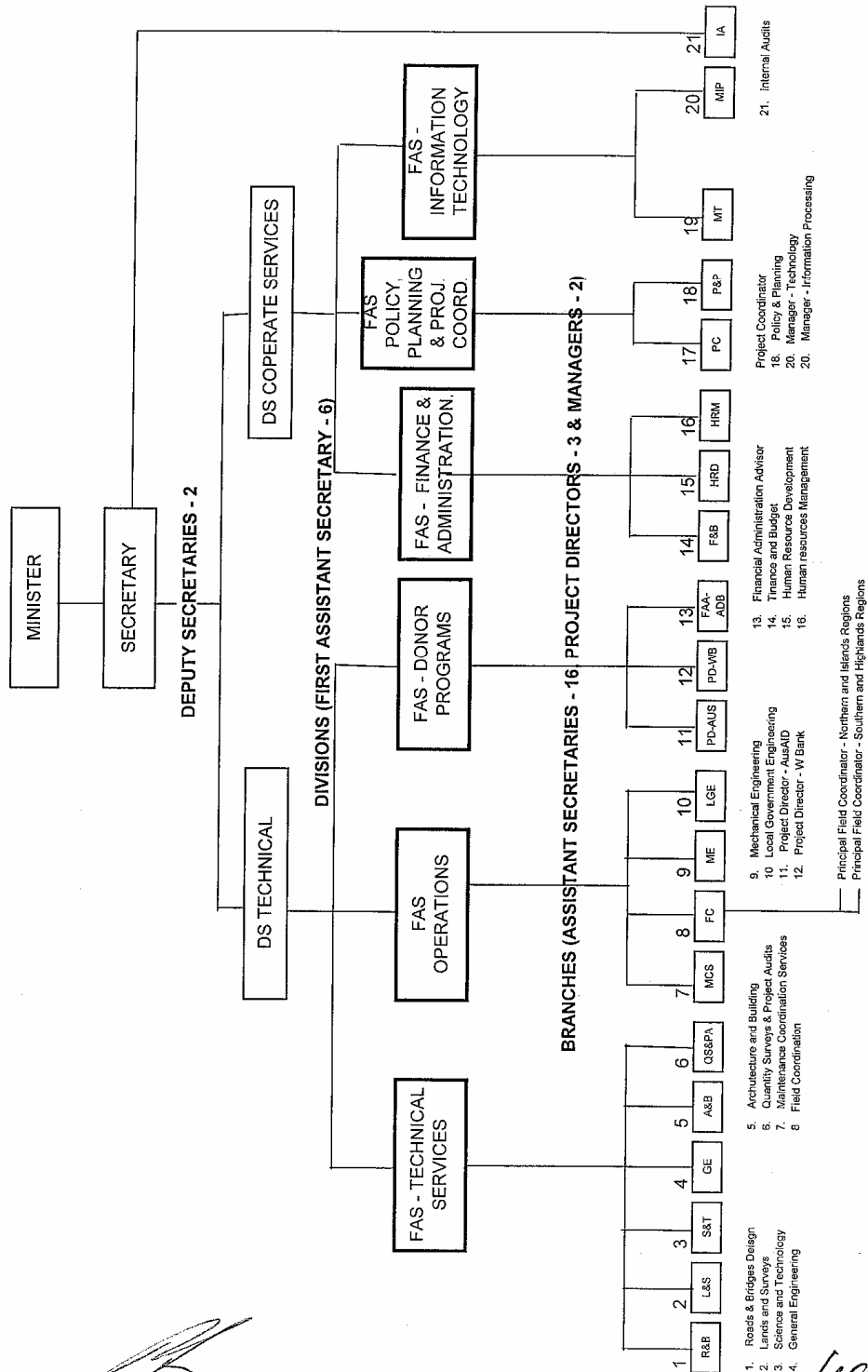


Jhr

Site Map

Wes

DEPARTMENT OF WORKS TOP ORGANISATION STRUCTURE



Annex - 2

66

JAPAN'S GRANT AID SCHEME

The Grant Aid scheme 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.

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 Implementation	(The Notes exchanged between the Governments of Japan 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 (Japan International Cooperation Agency) to conduct a study on 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 Scheme, 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 (E/N) signed by the Governments of Japan and the recipient country.

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

2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"),

conducted by 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:

1. 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.
2. Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view;
3. Confirmation of items agreed upon by both parties concerning the basic concept of the Project.
4. Preparation of a basic design of the Project.
5. Estimation of cost 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 though 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 smooth implementation of the Study, JICA uses registered consulting firms. JICA selects firms based on proposals submitted by interested firms. The firms selected carry out a Basic Design Study and write a report, based upon terms of reference set by JICA.

The consulting firms used for the Study are recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

1) 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.

- 2) "The period of the Grant Aid" 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, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

- 3) Under the Grant Aid, 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 firm(s), are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

- 4) Necessity of "Verification"

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

- 5) Undertakings required to 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 the following:

1. To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the Project,
2. To provide facilities for the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites,
3. To secure buildings prior to the procurement in case the installation of the equipment,
4. To ensure all the expense and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid,
5. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the verified contracts,
6. To accord Japanese nationals, whose services may be required in connection with supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.



6) "Proper Use"

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

7) "Re-export"

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

8) Banking Arrangement (B/A)

- a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese 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 the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.

9) Authorization to pay (A/P)

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



Major Undertaking to be taken by Each Government

NO	Items	To be covered by Grant Aid	To be covered by Recipient side
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site		●
4	To construct the parking lot	●	
5	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site (receiving and elevated tanks)	●	
7	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		●
8	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 customs clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
9	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		●

Jhr

[Signature]

10	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		●
11	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant Aid		●
12	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment		●

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




4-2 Draft Report Explanation M/D (February 7, 2007)

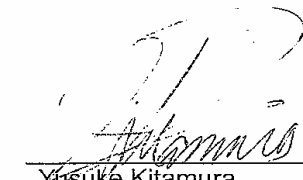
**Minutes of Discussions
on the Basic Design Study
on the Project for the Urgent Rehabilitation of Markham Bridge
in the Independent State of Papua New Guinea
(Explanation on the Draft Report)**

In August, 2006, Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for the Urgent Rehabilitation of Markham Bridge (hereinafter referred to as "the Project") to the Independent State of Papua New Guinea (hereinafter referred to as "PNG") and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the study.

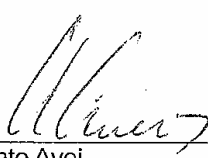
In order to explain and consult the Government of PNG on the components of the draft report, JICA sent to PNG the Draft Report Explanation Team (hereinafter referred to as "the Team"), headed by Mr. Yusuke Kitamura, Resident Representative, JICA PNG Office and is scheduled to stay in the country from February 2 to 8, 2007.

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

Port Moresby, February 7, 2007




Yusuke Kitamura
Leader
Draft Report Explanation Team
JICA



Ulato Avei
Deputy Secretary
Department of National Planning and
Monitoring
the Independent State of Papua New Guinea

Witnessed by



Roy Mumu
Deputy Secretary Technical
Department of Works
the Independent State of Papua New Guinea

ATTACHMENT

1. Components of the Draft Report

The PNG side agreed and accepted in principle the components of the Draft Report explained by the Team.

2. Japan's Grant Aid Scheme

The PNG side reconfirmed the Japan's Grant Aid scheme and the necessary measures to be taken by the PNG side as explained by the Basic Design Study Team in August 2006 and described in the Annex 3 of the Minutes of Discussions signed by both sides on August 8, 2006.

3. Schedule of the Study

JICA will complete the Final Report in accordance with the confirmed items and send it to the PNG side before the end of April 2007.

4. Other Relevant Issues

- 4-1. Both sides reconfirmed the necessary land for the Project near Markham Bridge has been secured as informed on the letter issued by the PNG side dated on November 24, 2006. (See Annex-1)
- 4-2. Both sides reconfirmed that the PNG side set up the coordination committee with the concerned parties (local government, police, DOW, and the local residents, etc.), and formulating daily as well as emergency security measures adequately responsible to the sudden change of security situation as informed on the letter issued by the PNG side dated on November 24, 2006. (See Annex-1)
- 4-3. The PNG side confirmed that the following undertakings should be taken by the PNG side at its own expenses.
 - (1) To accelerate all the necessary procedures for the Project such as the custom clearance, exemption, etc.
 - (2) To issue the construction permit ion by December 2007.
 - (3) To construct small buildings for police at the Project site.

Annex - 1



DEPARTMENT OF WORKS
LAE

P.O.Box 636, Lae, Morobe Province, Papua New Guinea. Ph 675 4723143, Fax 675 4723153

FACSIMILE TRANSMISSION

Reg.No.	LF241/06	Time Sent		Operator	MP
To	JICA ADVISOR NATIONAL PLANNING OFFICE		From	J.WAKMA	
Fax No.	321 2679		Authorized		
Attn:	MR. OKABE		File Ref.		
cc			Date	24 TH / 11 / 06	
			No.of Page		

SUBJECT	INFORMATION REQUESTED FOR MARKHAM BRIDGE REHABILITATION PROJECT – MOROBE PROVINCE
----------------	--

Dear Sir,

Please find attached is the information you requested relating to the proposed rehabilitation of the Markham Bridge. If your need additional information please let me know as soon as possible.

The attachments comprises :

1. Reply to letter from Chodai Company in Japan
2. Community Consultative Committee members name list
3. Memorandum of Agreement between Local Communities and various Government Agencies

Kind Regards,

John Wakma
Provincial Works Manager (Morobe)



**DEPARTMENT OF WORKS
LAE**

P.O.Box 636, Lae, Morobe Province, Papua New Guinea. Ph 675 4723143, Fax 675 4723153

FACSIMILE TRANSMISSION

Reg.No.	LP237/06	Time Sent	11:49 am	Operator	MP
To	CHODAI CO.; LTD	From	John Wakma		
Fax No.	87 29 855 2221	Authorized			
Attn:	Mr. Akira Takaue	File Ref.	20-42-04		
	International Division	Date	20 th /11/06		
		No.of Page	2 incl. this page		

SUBJECT	MARKHAM BRIDGE REHABILITATION WORKS LAND ACQUISITION FOR CONSTRUCTION YARD
----------------	---

Dear Mr. Takaue,

In response to your fax message dated 13th November 2006, I have the following information for regarding the proposed construction yard.

We are pleased to advice and confirm to you that the proposed construction yard is confirmed as a State Land described as "Portion 202" which is owned by the Government of Papua New Guinea. *Refer map attached for your information.* We look forward to the earliest implementation of the bridge rehabilitation works.

Best Regards,

John Wakma
Provincial Works Manager
Department of Works
Morobe Province
Lae



**DEPARTMENT OF WORKS
MOROBE PROVINCIAL OFFICE**



Date : 17/11/06
Our Reference : 42-32-C01
Action Officer : Harry Aoape
Designation : Provincial Surveyor
Your Reference : **Rehabilitation of Markham Bridge**

P O Box 636, Lae
Morobe Province
Papua New Guinea
Phone 472 6320
Fax 472 3153

To Whom It May Concern:

**REHABILITATION OF MARKHAM BRIDGE
COORDINATING COMMITTEES**

Please be informing that the Memorandum of Understanding (MOU) will be ready on Wednesday 22nd November 2006 for signing.

If you see your name on the list please do come to the Department of Works office Lae and sign the MOU and you become a Coordinating committee for the Rehabilitation of Markham Bridge for the duration of the project.

Any queries or changes to the names on the list due to some unforeseen reason please inform the writer before Wednesday 22nd November 2006 for finalizing.

- | | |
|------------------------|--|
| (1) Yasom Panjil | Waril Clan Yalu |
| (2) Mike David | Waril Clan Yalu |
| (3) Siling Sagaling | Woman Rep Yalu |
| (4) Gelindge Gedisa | Poseika Labu |
| (5) Guling Poponi | Lupu Labu |
| (6) Gelindge Kepuctong | Labu Butu Labu |
| (7) Tom Philemon | Gabensis |
| (8) Kesip Yasasa | Youth Rep |
| (9) Thompson Jim | Yasua (Settler) |
| (10) Sam Ruben | Yasua (Settler) |
| (11) Elaing Ipako | Woman Rep Labu |
| (12) Nelson Boas | Potsie |
| (13) Micheal Simeon | Jamzam |
| (14) John Aria | Lands Division-Provincial Government |
| (15) Simon Yipam | Police - Rural Patrol Sector |
| (16) Yawing Bom | Councillor - Ward 5 Wampar LLG |
| (17) Tom Daniel | Village Magistrate - Ward 5 Wampar LLG |
| (18) Ruben Tara | DOW Provincial Civil Engineer |
| (19) Harry Aoape | DOW Surveyor |
| (20) Awagia Tom | Pastor-Lutheran Mission |

Your participation and cooperation will be greatly appreciated

Yours faithfully

Harry Aoape
Coordinator



PROJECT FOR THE REHABILITATION OF MARKHAM BRIDGE

MEMORANDUM OF AGREEMENT

This Memorandum Of Agreement herein referred to as **MOA** has been signed between the Department of Works herein referred to as **DoW**, Royal Papua New Guinea Constabulary herein referred to as the **Police**, the Morobe Provincial Government herein referred to as **MPA**, the Department of Lands herein referred to as **Lands** all representing the **State** or National Government and Waril Clan, Pusika Labubutu, Lupu, Gabensis Village, Yalu and all representing Local **Clans** and the Markham Bridge Settlement comprising the **Community Coordination Committee** for the smooth implementation of the Markham Bridge Rehabilitation Project herein referred to as **The Project**.

THE PROJECT

The Project is funded through a generous Grant Aid from the Government of Japan through the Japanese International Cooperation Agency JICA.

AGREEMENT

We (whose name appear on the list attached), representing the above parties hereby agree that **The Project** will be implemented without any unnecessary interruptions to the contractor due to such factors as land disputes, crop compensations, gravel royalties, employment, provision of social services, or similar issues. We agreed that if any such issues arise, those issues shall be immediately brought to the attention of relevant agencies or Government Departments such as DoW, Lands, Police, MPA etc, to resolve. We further agreed that this Committee will ensure that members of our respective clans & settlements are made aware of this MOA and that any breach of this MOA will be referred to appropriate Law Enforcement Agencies.

We acknowledge that we represent our respective clans and communities and hereby agree and undertake to abide by the above Agreement. And as a sign of our agreement and consent have caused our signatures to be signed below on the date shown.



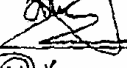

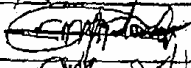
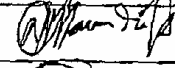
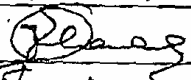
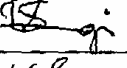
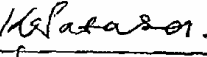
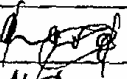



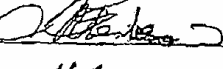
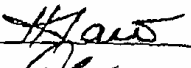
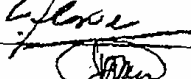

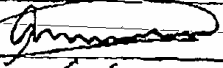
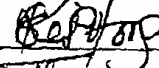
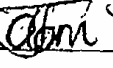
Dated This Thursday the 23rd day of November 2006
(Day) (Date) (Month)

At the Department of Works Conference Room in Lae, Morobe Province.

Markham Bridge Rehabilitation Project

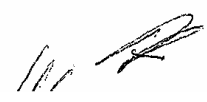
Memorandum Of Agreement For Local Community & State

**Markham Bridge Rehabilitation Project
Community Coordinating Committee**

Name	Clan / Group / Community	Signature
SILING SAGALING	WOMAN REP (YALU)	
NAIK DAVID	WARIL CLAN (YALU)	
YASOM PANLIL	WARIL CLAN (YALU)	
TOM DANIEL	VILLAGE MAGISTRATE	
TOM PHILEMON	GABRIEL'S CHURCH BURNHILL ROAD, L/O	
NELSON BOAT	ABOARD ROMAN CLAN	
AMMON JIM	COMMUNITY REP. (YALU)	
SAM RUBEN	SPEAKERMAN (YALU)	
KRSIP YASUA	YOUTH REP (YASUA)	
GULING BOAT	PSACK OFFICER LABU	
MICHAEL SIMON	OROGREMAN CLAN	
YASING BOAT	WARD (FIVE) KUMBA LIG MARKHAM BRIDGE (COUNSELLOR)	
ELAIN IPAKO	WOMAN REP. LABU BUTU.	
GELINDE GIDISA	LAND MEDIATOR 1 FUSICA LABU	
REUBEN TARA	PCE - DOW	
HARRY ADPE	DOW PROVINCIAL SURVEYOR	
SIMON TIPAM	RURAL POLICE COMMANDER	
JOHN AKLA	LAND OFFICER PROVINCIAL GNT	
GRUNDE KIPUTING	LABUBU VILLAGE COURT MAGISTRATE	
ANATTA JOM	PASTOR / LUTHERAN MISSION	

Markham Bridge Rehabilitation Project

Memorandum Of Agreement For Local Community & State

Appendix 5. Results of Traffic Volume Count

Date : August 15th, 2006

Site : Markham Bridge Lae Side

Survey Hour : From AM 6:00 to PM 6:00

Weather : Rain/Cloud

① From Lae to Wau

Vehicle Type	06:00 -08:00	08:00 -10:00	10:00 -12:00	12:00 -14:00	14:00 -16:00	16:00 -18:00	Total
Trailer	0	2	0	1	0	2	5
Truck	7	12	8	14	23	23	87
Bus	0	0	1	1	0	0	2
Passenger Car	7	7	10	12	17	14	67
Motorbike	0	0	0	0	0	2	2
Vehicle Total	14	21	19	28	40	41	163
Walker, Bicycle	1	4	6	25	8	34	78

② From Wau to Lae

Vehicle Type	06:00 -08:00	08:00 -10:00	10:00 -12:00	12:00 -14:00	14:00 -16:00	16:00 -18:00	Total
Trailer	1	1	0	0	1	2	5
Truck	6	21	18	12	10	23	90
Bus	0	0	0	1	1	0	2
Passenger Car	5	15	10	9	6	15	60
Motorbike	0	1	0	1	0	0	2
Vehicle Total	12	38	28	23	18	40	159
Walker, Bicycle	26	5	6	19	11	15	82

③ Both Side Total

Vehicle Type	06:00 -08:00	08:00 -10:00	10:00 -12:00	12:00 -14:00	14:00 -16:00	16:00 -18:00	Total
Trailer	1	3	0	1	1	4	10
Truck	13	33	26	26	33	46	177
Bus	0	0	1	2	1	0	4
Passenger Car	12	22	20	21	23	29	127
Motorbike	0	1	0	1	0	2	4
Vehicle Total	26	59	47	51	58	81	322
Walker, Bicycle	27	9	12	44	19	49	160

Appendix 6. Results of Geological Investigation

Geological investigation consists of borehole drilling, standard penetration test, soil sampling and laboratory tests. The results of borehole drilling and standard penetration test are shown in the following photos. The geological profile is shown in the next page.



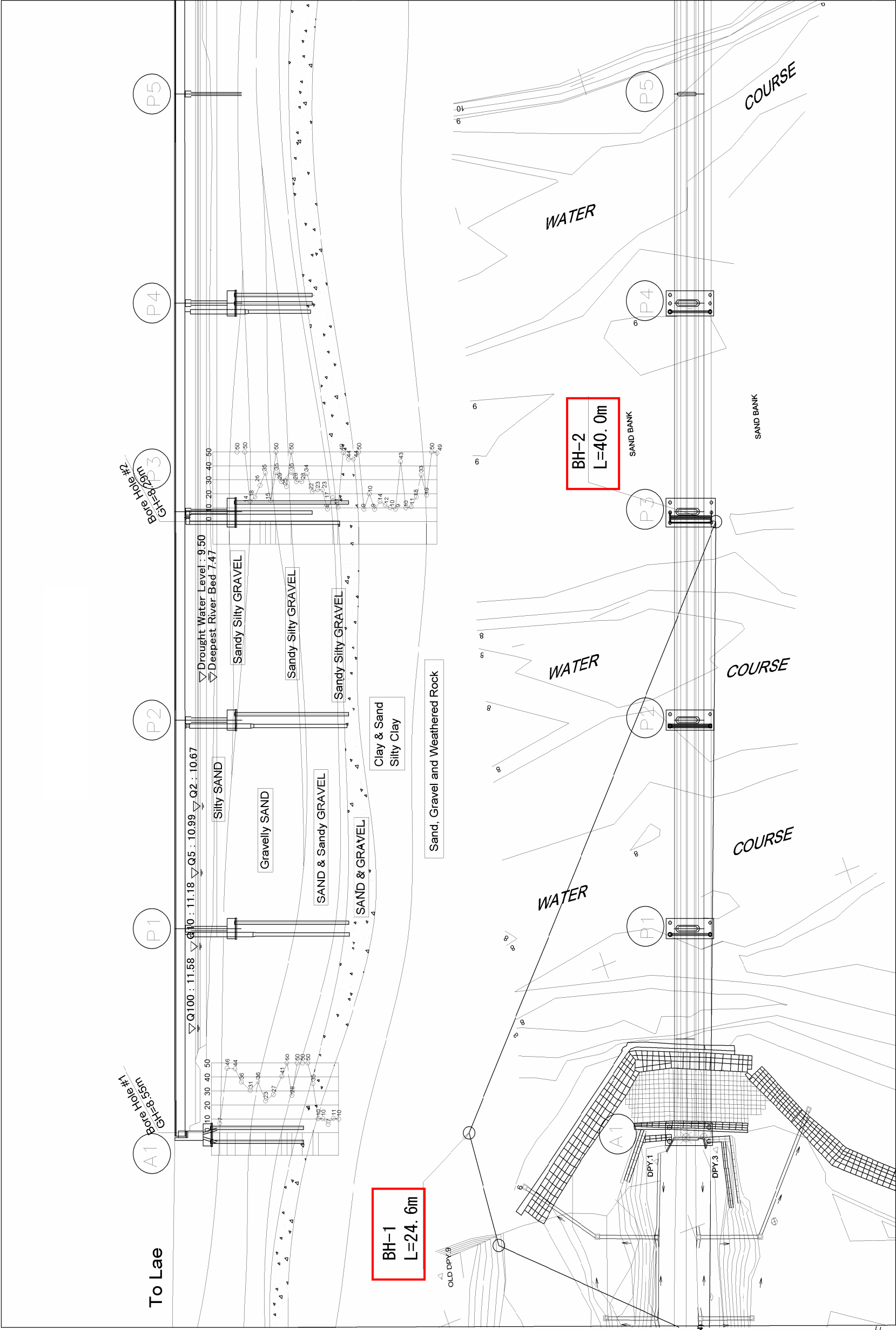
Drilling condition at Abutment



Drilling condition at Pier 3



Sample example taken



geological profile

Appendix 7. Results of Topographic Survey

Topographic Survey consists of road topographic survey, river topographic survey and bench mark setting. The bench mark setting point is shown in the following photo. The topographic result is shown in the next page.



Bench mark in Lae side(STN.8)

Bench mark coordinates

Station	East	North	EL
STN.6	487843.05	9260109.06	15.19
STN.8	488053.84	9260670.08	15.19
TK	488074.32	9260705.36	15.44
BM4	487854.52	9260104.82	15.69
OCP1	487915.94	9260079.75	28.48

