

資 料

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資料 1. 調査団員・氏名

(1) 現地調査時

表 A-1 調査団員名簿(現地調査時)

担 当	氏 名	所 属
総括	山内 邦裕	国際協力機構 ガーナ事務所長
計画管理	江上 雅彦	国際協力機構 無償資金協力部 業務第一グループ 運輸交通・電力チーム
業務主任／道路交通計画／ 環境社会配慮	森田 秀明	(株)建設企画コンサルタント
道路設計Ⅰ(道路線形・構造)	小石川 一晴	(株)建設企画コンサルタント
道路設計Ⅱ(付帯構造物)	廣瀬 末雄	(株)建設企画コンサルタント
橋梁設計	最上 猛夫	(株)建設企画コンサルタント
施工計画／積算	小野田 進	(株)建設企画コンサルタント
自然条件調査(地質)	西嶋 國昭	(株)建設企画コンサルタント
自然条件調査 (水門・排水・地形測量)	北村 雄一	(株)建設企画コンサルタント

(2) 基本設計概要説明時

表 A-2 調査団員名簿(基本設計概要説明時)

担 当	氏 名	所 属
総括	熊谷 真人	国際協力機構 ガーナ事務所次長
計画管理	金川 誠	国際協力機構 無償資金協力部 業務第一グループ 運輸交通・電力チーム
業務主任／道路交通計画／ 環境社会配慮	森田 秀明	(株)建設企画コンサルタント
道路設計Ⅰ(道路線形・構造)	小石川 一晴	(株)建設企画コンサルタント

資料 2. 調査行程

(1) 現地調査時：平成 20 年 4 月 2 日～5 月 15 日

Tentative Schedule

No.	Mth.	Day	JICA			Consultant																					
			Team Leader JICA Ghana office, Resident representative	Project coordinator Grant Aid Management Department, JICA	Chief consultant / Road Planner / Specialist on the Social & Environment	Road Designer I	Road Designer II	Bridge Designer	Construction Planner / Estimator	Natural Investigation (Geology)	Natural Investigation (Survey & Drainage)																
			Kunihiro YAMAUCHI	Masahiko EGAMI	Hideaki MORITA	Kazuharu KOISHIKAWA	Sueo HIROSE	Takeo MOGAMI	Sin ONODA	Kuniaki NISHIJIMA	Yuichi KITAMURA																
1	2	We		Tokyo ->	Tokyo~Dubai																						
2	3	Th		->Accra(20:10) by BA081	Dubai~Accra(12:00) by EK787						Tokyo~Dubai																
3	4	Fr	08:30 Meeting with JICA office 11:00 C/C on MOFEP (Mr.Nyako;020-2015508) 14:00 C/C on MOT (Mr. Boaky; 021-665608) 15:00 C/C on GHA (Mr. Konadu; 024-4233497)			Site Invest. arrangement					Dubai~Accra																
4	5	Sa	Accra -> Kumasi Site Investigation (Stay in Kumasi) (C/P: Mr. Lamptey 0244-234881)								Site Invest. arrangement																
5	6	Su	Site Investigation Kumasi -> Accra, Internal meeting								Internal meeting																
6	7	Mo	08:00 C/C on EOJ (TENTATIVE) 09:00 Discussion with GHA (Inception report)			Site Invest. arrangement					Site Invest. arrangement																
7	8	Tu	Discussion with GHA								Site Investigation																
8	9	We	Discussion with GHA on M/D			Site Investigation		Tokyo~Dubai																			
9	10	Th	10:00 Signing of M/D with MOFEP, MOT and GHA, PM: Report to EOJ and JICA office (Egami: Accra(22:25) -> London by BA078)					Dubai~Accra																			
10	11	Fr		->London(8:25) /(19:00)->	Discussion (GHA)																						
11	12	Sa		-> Tokyo(14:45) by JL402	Site Investigation																						
12	13	Su	Apr			Site Investigation, Internal meeting																					
13	14	Mo	Site Investigation																								
14	15	Tu																									
15	16	We																									
16	17	Th																									
17	18	Fr																									
18	19	Sa																									
19	20	Su										Site Investigation, Internal meeting															
20	21	Mo										Site Investigation															
21	22	Tu																									
22	23	We																									
23	24	Th																									
24	25	Fr																									
25	26	Sa																									
26	27	Su	Site Investigation, Internal meeting																								
27	28	Mo	Discussion (GHA)																								
28	29	Tu																				Accra~	Data correction		Data correction		
29	30	We																				Dubai~	Accra~	Site Investigation	Accra~	Site Investigation	
30	1	Th										Labour's day	Site Investigation			~Tokyo	Dubai~	Dubai~									
31	2	Fr														~Tokyo		~Tokyo									
32	3	Sa										Internal meeting															
33	4	Su																									
34	5	Mo																			Report to MOT, GHA, Report to EOJ, JICA office					Data correction	
35	6	Tu																			Accra(17:30) -> by EK788					Accra~	
36	7	We																			Dubai~					Dubai~	
37	8	Th	~Tokyo					~Tokyo																			
38	9	Fr	Site Investigation																								
39	10	Sa																									
40	11	Su																									
41	12	Mo																									Data correction
42	13	Tu																Accra~									
43	14	We																Dubai~									
44	15	Th																~Tokyo									

Regend EOJ: Embassy of Japan
MOFEP: Ministry of Finance and Economic Planning, MOT: Ministry of Transportation, GHA: Ghana Highway Authority

(2) 基本設計概要説明：平成 20 年 10 月 16 日～10 月 25 日

Date		Mr. KUMAGAI	Mr. KANAGAWA	Consultant	Ms. Enomoto	Mr. Tanaka, Mr. Christopher	
Oct. 16	Thu			Dept. Narita			
Oct. 17	Fri			Arrv. Accra 1500 Meeting with JICA Ghana Office			
10月18日	Sat		0900 Dept. Nairobi (KQ508) 1140 Arrv. Accra	Preparation for discussion			
			14 : 00 Accra→19 : 00 Obuasi (by car)				
10月19日	Sun		8:00 Obuasi 9:00 Anwiankwanta 10:00 Bekwai 12:00 Praso 14:00 Yamoransa 16:30 Takoradi 19:00 Yamoransa 21:00 Accra	1630 Accra		1130 Accra 1400 Yamoransa 16:30 Takoradi 19:00 Yamoransa 21:00 Accra	
10月20日	Mon	0900 Meeting with JICA Ghana Office 1100 MOFEP 1400 MOT、GHA					
10月21日	Tue	Discussion with GHA					
10月22日	Wed	Discussion with GHA Sign on M/D					
10月23日	Thu	0900 Meeting with JICA Ghana Office 1030 Report to EOJ					
			Dept. Accra				
10月24日	Fri		Dubai				
10月25日	Sat		Arrv. Japan				

* MOFEP: Ministry of Finance and Economic Planning

MOT: Ministry of Transportation

GHA: Ghana Highway Authority

資料 3. 関係者(面会者)リスト

(1) 現地調査時

- 1) 財務経済計画省 (MOFEP : Ministry of Finance and Economic Planning)

Mr. Yaw Okyere-Nyako	Acting Director External Resource Mobilization -Bilateral
Mr. Samuel Abu-Bonsrah	Head of Japan, China, South Korea Desk External Resource Mobilization (Bilateral) Division
- 2) 運輸省 (MOT: Ministry of Transportation)

Hon. Dr. Richard ANANE	Minister of Transportation
Hon. Magnus OPARE ASAMOAH	Deputy Minister of Transportation
Mr. Alex Twumasi BOAKYE	Acting, Director
Mr. E. A. KWAKYE	Transport Adviser
Mr. G.K. KUMOR	Director, (Administration)
Ms. Gloria NOI	Deputy Director (Human Resource Dev.)
Mr. E. SIADAH	Staff
Mr. Charles AFETIERNU	Staff
- 3) ガーナ道路公社 (GHA: Ghana Highway Authority)

Mr. Eric Oduro KONADU	Chief Executive
Mr. Martin hMENSAH	Deputy Chief Executive (Administration)
Mr. K.B. DARFOOR	Acting Deputy chief Executive (Development)
Ms. Janice A. OMANI	Assistant Engineer (Survey & Design)
Mr. E.A. MILLS	Principal Engineer (Geod) – Survey & Design
Mr. Charles J. RHABBLES	Director (Planning)
Mr. Ofori FRIMPONG	Acting Director (RSE)
Mr. Aminu Issaka ABUBAKAR	Acting Director (Bridges)
Mr. Gordon AMATEY	Design Engineer (Survey & Design)
Mr. Michael A. ABBEY	Director of Contracts
Mr. Lawrence LAMPTEY	Principal Engineer (Materials)
Mr. D.K. SINTIM-ABOAKYE	Director (Materials)
Ms. Rita OHENE-SARFO	Principal Engineer (Environment)
Mr. Kofi ARCHER-KWAGYAN	Principal Valuer
- 4) 在ガーナ国日本大使館

中村 温	参事官
織田 雪世	専門調査員
- 5) JICA ガーナ事務所

熊谷 真人	次長
田中 幸成	所員
Mr. Christopher Nuoyel	Program Officer/Infrastructure

(2) 基本設計概要説明時

1) 運輸省 (MOT: Ministry of Transportation)

Mr. Alex Twumasi BOAKE	Ag, Chief Director
Mr. Peter Ofori-Asumadu	Ag, Director Policy & Planning

2) 財務経済企画省 (MOFEP)

Mr. Yaw Okyere-Nyako	Director of External Resource Mobilization (Bilateral) Division
Mr. Samuel Abu-Bonsra	Head, Japan & Korean, Dep., External Resource Mobilization (Bilateral) Division

3) ガーナ道路公団 (GHA)

Mr. E Oduro-Asumadu	Chief Executive
Mr. Kwasi B. Darfoor	Acting Deputy Chief Executive, Development
Mr. Peter Dagadu	Director of Bridges
Mr. Omusu Sekyere Antwi	Principal Engineer, Bridges
Mr. Ofori Frimpong	Principal Engineer, Road Safety & Environment
Ms. Rita Ohene Sarpong	Principal Engineer, Road Safety & Environment
Mr. K. N. Aboagye	Director of Survey & Design
Mr. Lawrence L. L. Lamptey	Principal Engineer, Materials
Mr. Joseph Amedruke	Principal Engineer, Materials
Mr. Arche-Kwagyam	Principal Valuer

4) 在ガーナ国日本大使館

中村 温	在ガーナ国日本大使館 参事官
穴澤 葉子	在ガーナ国日本大使館 一等書記官

5) JICA ガーナ事務所

熊谷 真人	JICA ガーナ事務所 副所長
田中 幸成	JICA ガーナ事務所 職員
榎本 裕子	JICA ガーナ事務所 職員
Mr. Christopher Nuoyel	JICA ガーナ事務所 職員

資料 4. 討議議事録 (M/D)

(1) 現地調査時

**Minutes of Discussions
on the Basic Design Study
on the Project for the Rehabilitation of National Trunk Road N8
in the Republic of Ghana**

Based on the results of the Preliminary Study, the Government of Japan decided to conduct a Basic Design Study on the Project for the Rehabilitation of National Trunk Road N8 (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 Republic of Ghana (hereinafter referred to as "Ghana") the Basic Design Study Team (hereinafter referred to as "the Team"), which was headed by Mr. Kunihiro Yamauchi, Resident Representative of the JICA Ghana Office, and is scheduled to stay in the country from April 3 to May 13, 2008.


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

In the course of discussions and field survey, both sides confirmed the main items described in the attached sheets. The Team will proceed to further works and prepare the Basic Design Study Report.

Accra, April 9, 2008



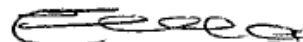
Kunihiro Yamauchi
Leader
Basic Design Study Team
Japan International Cooperation Agency



A. Twumasi Boakye
Acting Chief Director
Ministry of Transportation
The Republic of Ghana



Samuel Abu-Bonsrah
Acting Head
External Resource Mobilization(Bilateral) Division
Ministry of Finance and Economic Planning
The Republic of Ghana



Eric Oduro- Konadu
Chief Executive
Ghana Highway Authority
The Republic of Ghana

ATTACHMENT

1. Objective of the Project

The objective of the Project is to rehabilitate the National Trunk Road N8 between Assin Praso and Anwiankwanta, in order to promote economic growth and reduce poverty.

2. Project Site

The Project site is located in Ashanti Region, as shown in Annex-1.

3. Responsible and Implementing Organizations

- The responsible ministry is Ministry of Transportation (MOT).
- The implementing agency is Ghana Highway Authority (GHA).
- The organization charts of MOT and GHA are shown in Annex-2.

4. Items Requested by the Government of Ghana

After discussions with the Team, the Project components were confirmed as below:

- Rehabilitation of National Trunk Road N8 between Assin Praso and Anwiankwanta (approximately 60km), including the reconstruction of Assin Praso Bridge.

Starting point: Assin Praso Bridge

End point: The end point of the sectional rehabilitation project by GHA, i.e. 16km from Anwiankwanta

JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

5. Japan's Grant Aid Scheme

The Ghanaian side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Ghana as explained by the Team and described in Annex-3 and Annex-4 of the Minutes of Discussions signed by both parties on August 1, 2007.

6. Schedule of the Study

6-1. The consultants will proceed with further studies in Ghana until May 13, 2008.

6-2. JICA will prepare the draft report in English and dispatch a mission in order to explain its contents. The Team explained that the timing of the dispatch of the mission needs to be set in October 2008, considering the Study schedule and the timing of appraisal of the Project by the Government of Japan. The Ghanaian side agreed to accept the mission in October 2008.

6-3. In case that the contents of the report are accepted in principle by the Government of Ghana, JICA will complete the final report and send it to the Government of Ghana by



the end of December 2008.

7. Environmental and Social Considerations

7-1. Both sides confirmed that Environmental Permit is necessary for the Project in accordance with the Environmental Assessment Regulations of the Government of Ghana, and that GHA shall obtain the permission for the Project through the following procedures.

- 1) GHA shall submit the Registration Form for screening in respect of the Environmental Impact Assessment (EIA) procedure to the Environmental Protection Agency (EPA) of Ghana by April 18, 2008. GHA shall report the result of the screening by EPA to JICA Ghana Office before the end of May 2008.
- 2) GHA shall prepare a scoping and a draft EIA reports in accordance with the response by EPA. The draft EIA report shall be prepared based on the tentative feasible option, which shall be communicated by the Team to GHA before the middle of June 2008.
- 3) GHA shall submit the draft EIA report to EPA before the end of June 2008, complete the necessary procedures for EIA and obtain the Environmental Permit by the end of November 2008. GHA shall report the result of EIA to JICA Ghana Office by the same date.

7-2. GHA shall bear the expenses of EIA procedures.

7-3. GHA shall secure the necessary land for the Project in accordance with the Ghanaian law. The expenses of the procedures and compensation to the local residents should be borne by GHA. GHA shall hold meetings and/or negotiate with land owners and confirm the consensus on the expropriation and/or temporary use of land necessary for the Project by the end of November 2008. GHA shall report the results to JICA Ghana Office by the same date and complete the land acquisition before the commencement of the Project.

7-4. The Team shall provide GHA with necessary information of outline design, before the middle of September 2008 for GHA's smooth execution of above mentioned procedures.

8. Other Relevant Issues

8-1. The name of the Project is "the Project for the Rehabilitation of National Trunk Road N8".

8-2. The following undertakings shall be done by GHA at its expense before the commencement of the Project.

- Relocation of existing utilities (power, telecommunication lines, water lines, etc.), if necessary,
- Removal of the existing Assin Praso Bridge, if necessary,
- Securing and clearance of the temporary yard and land for detour, and
- Securing of the site for borrow pit and disposal area.

8-3. GHA shall secure enough budget and personnel necessary for the maintenance of the road rehabilitated by the Project.

8-4. GHA ensured that there is no overlap of similar support by other donors for the Project.

8-5. The Ghanaian side shall submit the answers to the Questionnaire submitted by the Team by April 11, 2008.

8-6. The Ghanaian side shall provide necessary number(s) of counterpart personnel to the Team during the period of the study in Ghana.

Annex-1: Location Map

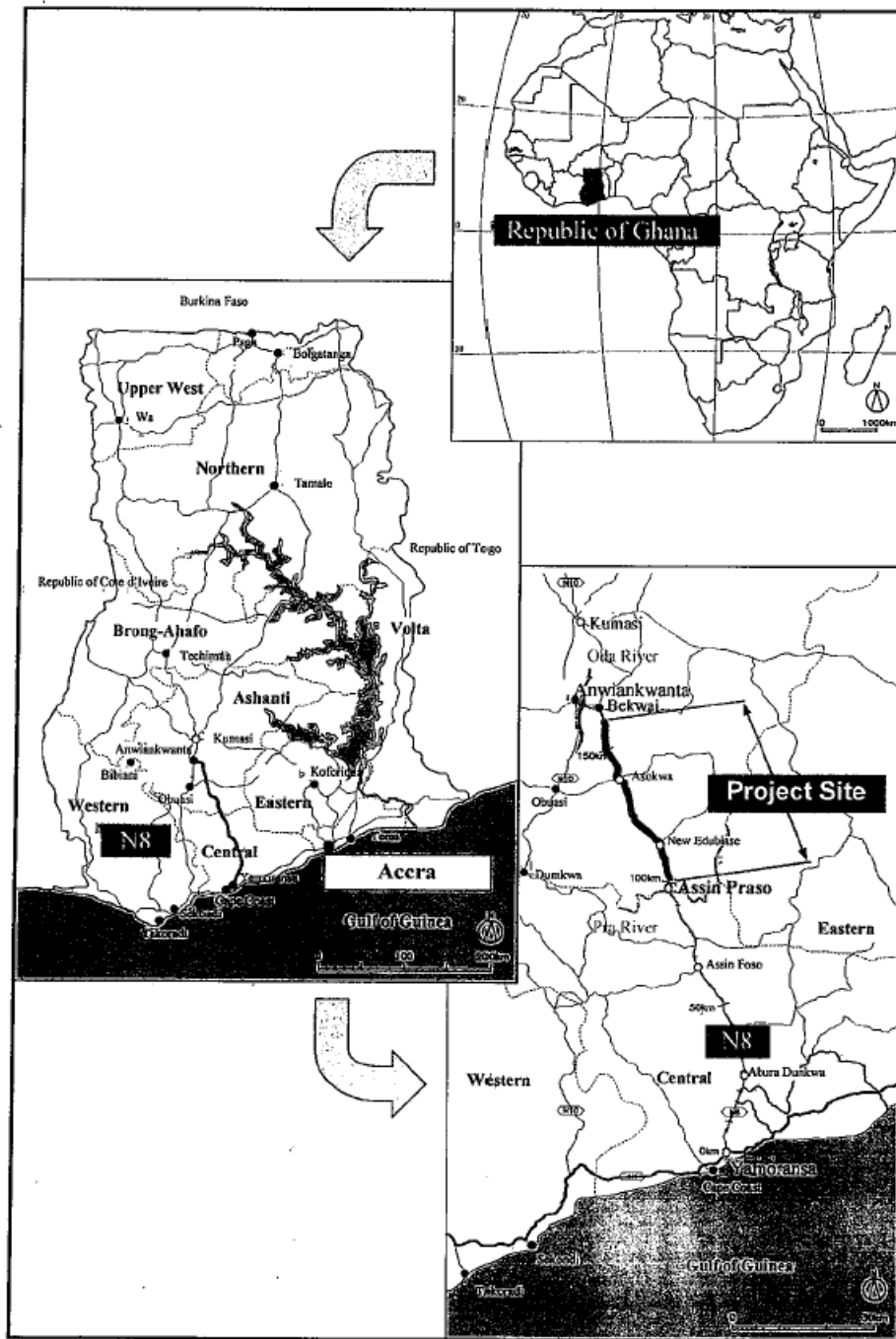
Annex-2: Organization Chart of MOT and GHA

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MB



Location Map

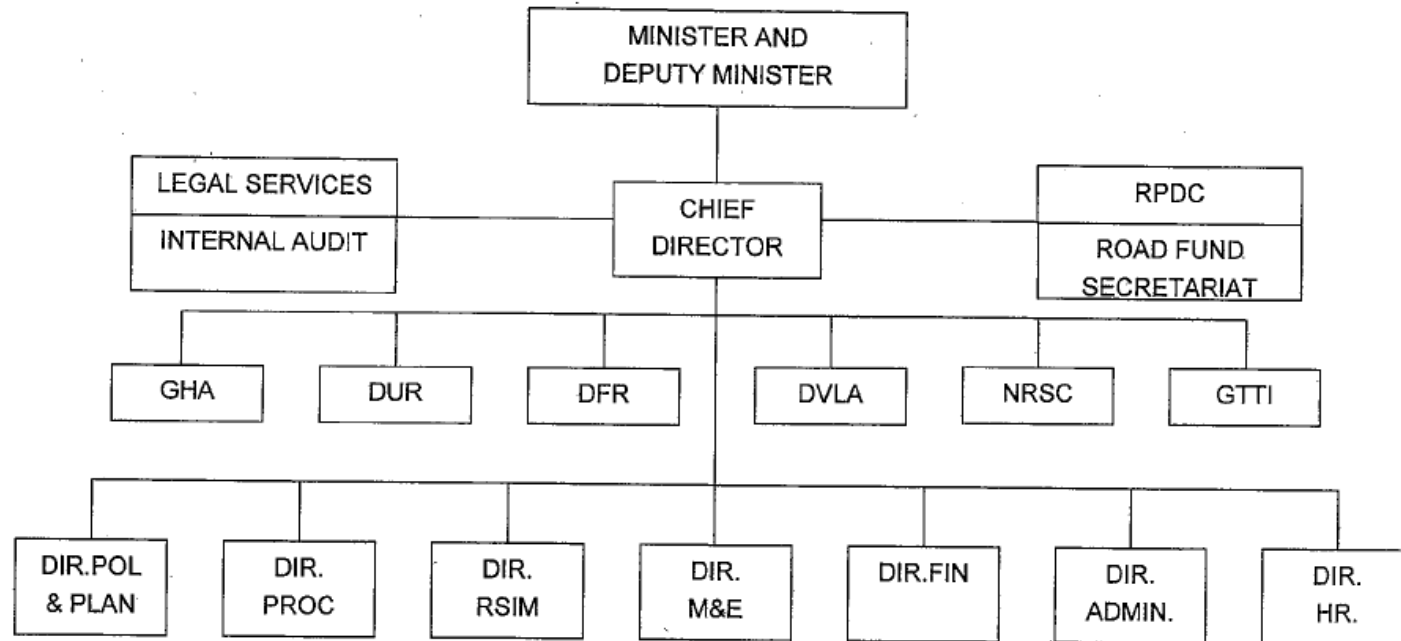
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ORGANISATIONAL STRUCTURE OF THE MINISTRY OF TRANSPORTATION

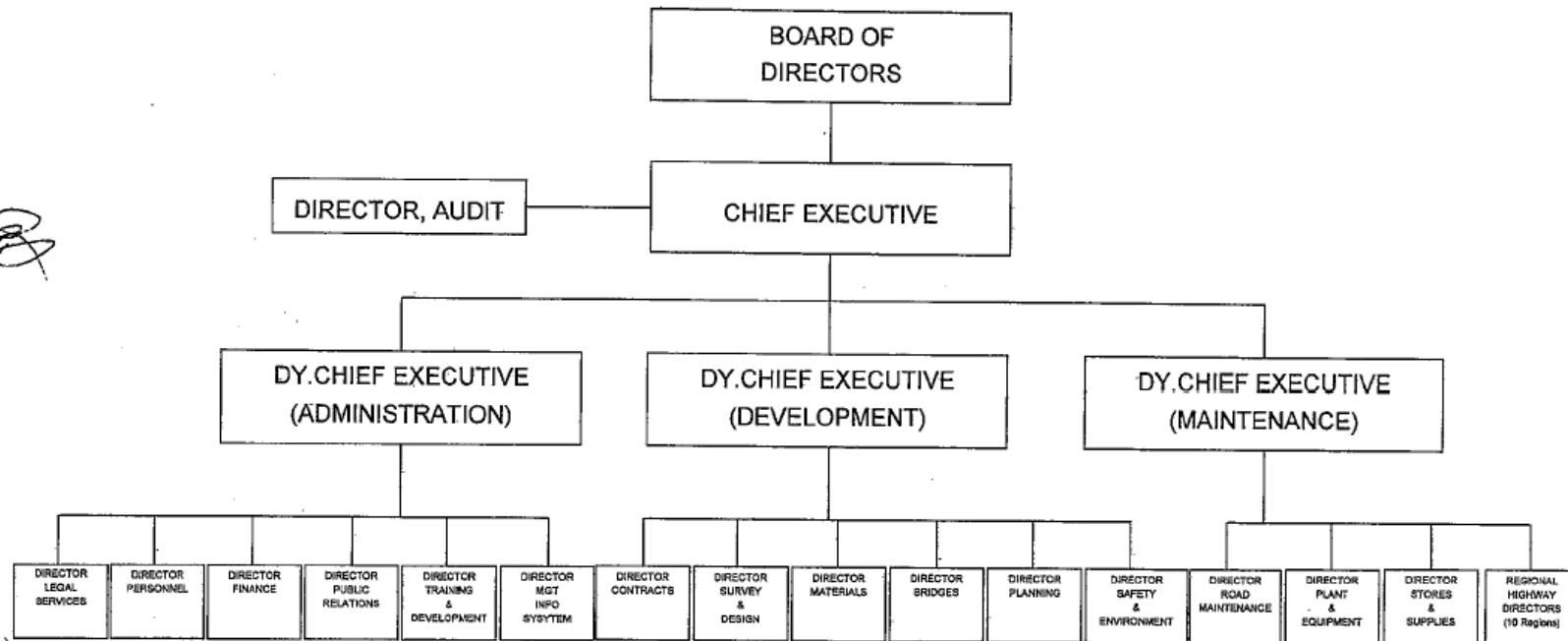


ABBREVIATIONS

1. RPDC – ROAD PROGRAMME AND DONOR CORDINATION
2. DVLA - DRIVER AND VEHICLE LICENCING AUTHORITY
3. DUR – DEPARTMENT OF URBAN ROADS
4. DFR – DEPATMENT OF FEEDER ROADS
5. NRSC – NATIONAL ROAD SAFETY COMMISSION
6. RSIM – RESEARCH STATTICS AND INFORMATION MANAGEMENT
7. GTTI – GHANA TECHNICAL TRAINING INSTITUTE

8. M & E – MONITORING AND EVALUATION
9. ADMIN - ADMINISTRATION
10. PROC – PROCUREMENT
11. GHA – GHANA HIGHWAY AUTHORITY
12. HR – HUMAN RESOURCES
13. FIN – FINANCE
14. POL.& PLAN – POLICY AND PLANNING

ORGANISATIONAL STRUCTURE OF GHANA HIGHWAY AUTHORITY



(2) 基本設計概要説明時

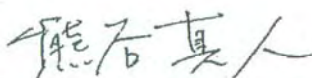
**Minutes of Discussions
on the Basic Design Study
on the Project for the Rehabilitation of National Trunk Road N8
in the Republic of Ghana
(Explanation on Draft Report)**

In April, 2008, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Basic Design Study Team on the Project for the Rehabilitation of National Trunk Road N8 (hereinafter referred to as "the Project") to the Republic of Ghana (hereinafter referred to as "Ghana"), and through discussions, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the Study.

In order to explain and to consult with the concerned officials of the Government of Ghana on the components of the draft report, JICA sent to Ghana the Basic Design Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Masato Kumagai, Senior Representative, JICA Ghana Office, from October 16 to October 25, 2008.

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

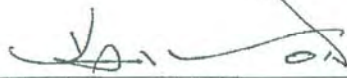
Accra, October 22, 2008



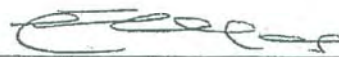
Masato Kumagai
Leader
Basic Design Explanation Team
Japan International Cooperation Agency
Japan



Alex Twumasi-Boakyie
Acting Chief Director
Ministry of Transportation
The Republic of Ghana



Yaw Okyere-Nyako
Director
External Resource Mobilization (Bilateral) Division
Ministry of Finance and Economic Planning
The Republic of Ghana



Eric Oduro-Konadu
Chief Executive
Ghana Highway Authority
The Republic of Ghana

ATTACHMENT

1. Components of the Draft Report

The Ghanaian side agreed and accepted in principle the components of the draft report of the Basic Design Study explained by the Team.

2. Japan's Grant Aid Scheme

The Japanese side explained the procedure of Japan's Grant Aid Scheme and the Ghanaian side understands it.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Ghanaian side by the end of December, 2008.

4. Cost Estimation

Both sides agreed that the Project Cost Estimation, as attached in Annex-1, should never be duplicated or released to any third parties before the signing of all the contracts for the Project.

5. Undertakings by the Ghanaian side

5-1. Environmental and Social Considerations

Both sides confirmed that Environmental Permit is necessary for the Project in accordance with the Environmental Assessment Regulations of the Government of Ghana. Furthermore, the Ghanaian side agreed that Ghana Highway Authority (GHA) shall obtain the permit for the Project at its own expense by the end of November, 2008 and report to JICA Ghana Office immediately after the issuance of the permit.

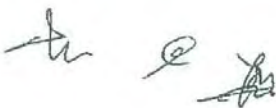
5-2. Removal and Relocation of Existing Utilities

Ghanaian side agreed that GHA will take necessary measures to remove or relocate existing utilities (power, telecommunication lines, water lines, etc.), including the coordination with other authorities concerned, at its own expense before the commencement of the Project.

5-3. Land Acquisition

GHA shall secure the necessary land for the Project in accordance with the Ghanaian law. The expenses of the procedures and compensation to the property owners should be borne by GHA. GHA shall hold meetings and/or negotiate with the property owners and confirm the consensus on the expropriation and/or temporary use of land necessary for the Project as shown in the following schedule.

- Identification of persons to be compensated based on the results of a field survey by the



survey group of GHA, by the middle of November, 2008.

- Explanation to and acquisition of consents from each property owner, by the end of November, 2008.

GHA shall report the results to JICA Ghana Office by the same date and complete the land acquisition before the commencement of the Project.

5-4. Maintenance after the Project

The Japanese side explained and requested necessary measures (e.g. strict enforcement of the axle load control) and budget allocation for maintenance of the road, bridge and other related facilities included in the Project after the completion of the Project, and the Ghanaian side agreed that GHA shall take necessary actions to maintain it properly at its own expense.

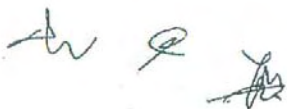
5-5. Other Relevant Issues

1) Both sides reconfirmed that the following undertakings for the Project will be borne by the Ghanaian side.

- Budget allocation for the commissions for the banking services, including the Authorization to Pay (A/P), based upon Banking Arrangement (B/A),
- Necessary arrangement for the tax exemption of imported equipment, materials and machinery of the Consultant and Contractor of the Project,
- Securing and clearance of the temporary yard and land for detour, and
- Securing of the site for borrow pit and disposal area.

2) The Team explained the tentative schedule of the Project, indicating that the construction will start 8 months after the Exchange of Notes between the Government of Ghana and Japan, which will follow the submission of the final report.

Annex-1: Project Cost Estimation

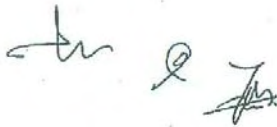


CONFIDENTIAL

Annex-1

Project Cost to be Borne by Japan's Grant Aid

**This Page is closed
due to the confidentiality.**



資料 5. 事業事前計画表(基本設計時)

1 案件名
ガーナ国 国道 8 号線改修計画
2 要請の背景(協力の必要性・位置付け)
<p>ガーナ国(以下「ガ」国)において道路網は、社会・経済活動の主要な基軸となっている。「ガ」国の主要な経済産品は、生産地・集積地である同国第二の都市クマシを中心とした経済圏から南下し、本調査対象道路である国道 8 号線を通り、同国第 2 の港であるタコラディ港から出荷されている。一方、輸入に関しては、主に「ガ」国最大の港であるテマ港から首都アクラを経由して、「ガ」国全域に物資が運搬されている。この物流ルートは首都アクラ及びテマ港からなるアクラ経済圏、内陸部のクマシ経済圏、そしてタコラディ港を中心とした「ガ」国西部経済圏を三角形に結ぶ同国の主要経済活動を担う重要なルートであると共に、近年、国内地域間格差が問題となっている北部サバンナ地帯や南部森林地帯に接続し、北部からのヤム芋などの農産品や、南部農産品及び木材などが、輸出港や主要経済圏に向け輸送される重要なルートである。さらに、「ガ」国が国境を接するブルキナファソやマリ、ニジェール等の内陸諸国の物流路としても重要な位置付けにある。「ガ」国の道路網は、1970 年代からの国内の経済発展に伴う交通量増加と共に、建設資材や一次産品を荷台に積み上げた過積載状態の大型車両が大幅に増加した結果、これら大型車の増加に伴い国内各所で舗装の急速な劣化発生が問題となった。こうした状況の下、国内各地で大型車両の観測が行われ、大幅な過積載の実態が確認された。本調査の対象区間であるアシンプラソーベクワイ(現在実施中の GHA による道路維持管理区間 16km の終点)間の道路においても 1993 年に調査が実施され、他の道路区間同様の過積載車が確認された。対象道路は、1990 年～1994 年にかけて我が国の円借款によりアスファルトコンクリート舗装で整備されたものの舗装の急速な劣化が発生し、「ガ」国の定期維持管理で修復可能なレベルを超えた損傷が生じ、幹線道路網のボトルネックとなっており、一刻も早い改修が必要とされている。このような背景にあって、本計画は対象となるアシンプラソーベクワイ間道路改修計画を実施する事により、対象区間の安全で円滑な交通流を確保することを目的とする。</p>
3 プロジェクト全体計画概要 *下線部：本無償資金協力に直接関係する成果、活動及び投入
<p>(1) プロジェクト全体計画の目標(裨益対象の範囲及び規模) 国道 8 号線上、アシンプラソーベクワイ間の円滑かつ安定的な交通が確保される。 裨益対象：「ガ」国の住民 2,300 万人</p> <p>(2) プロジェクト全体計画の成果 <u>アシンプラソーベクワイ間道路 59.9km が改修される。</u></p> <p>(3) プロジェクト全体計画の主要活動 <u>対象道路の舗装、道路構造物、付帯施設及びアシンプラソ橋の改修工事を実施する。</u></p> <p>(4) 投入(インプット) ア <u>日本側：無償資金協力 88.23 億円</u> イ 相手国側 (ア) 道路建設実施に伴う支障物件の移設に係る費用 (イ) 線形改良に伴う一部区間の土地取得及び、建設ヤード造成用の土地借り上げ費用 (ウ) 環境許可の取得費用</p>

<p>(エ) 道路建設後の維持管理費用</p> <p>(5) 実施体制 主管官庁：運輸省(MOT) 実施機関：ガーナ道路公団(GHA)</p>																	
4 無償資金協力案件の内容																	
<p>(1) サイト 「ガ」国、アシャンテ州</p> <p>(2) 概要 対象道路の改修</p> <p>(3) 相手国側負担事項 ① 建設用地の確保 ② 支障物件の移設 ③ 環境許可の取得 ④ 建設に必要な手続き</p> <p>(4) 概算事業費 概算事業費 89.32 億円(無償資金協力 88.23 億円、相手国側負担 1.09 億円)</p> <p>(5) 工期 実施設計、入札期間を含め約 48 ヶ月(予定)</p> <p>(6) 貧困、ジェンダー、環境及び社会面の配慮 なし</p>																	
5 外部要因リスク(プロジェクト全体計画の目標の達成に関するもの)																	
- 過積載車両の規制が適正に行われる。																	
6 過去の類似案件からの教訓の活用																	
特になし																	
7 プロジェクト全体計画の事後評価に係る提案																	
(1) プロジェクト全体計画の目標達成を示す成果指標																	
<table border="1"> <thead> <tr> <th>成果指標</th> <th>現状(2008年)</th> <th>計画(2013年)</th> </tr> </thead> <tbody> <tr> <td>対象区間の走行時間の短縮</td> <td>90分</td> <td>47分</td> </tr> <tr> <td>路面の平坦性(IRI)の向上</td> <td>平坦性が悪く安全性に問題のある区間9km</td> <td>平坦性が悪く安全性に問題のある区間0km</td> </tr> <tr> <td>橋梁部の安全な走行速度の向上</td> <td>10km/時</td> <td>80km/時</td> </tr> <tr> <td>橋梁部の許容荷重の向上</td> <td>設計自動車荷重12トン</td> <td>設計自動車荷重24.5トン</td> </tr> </tbody> </table>			成果指標	現状(2008年)	計画(2013年)	対象区間の走行時間の短縮	90分	47分	路面の平坦性(IRI)の向上	平坦性が悪く安全性に問題のある区間9km	平坦性が悪く安全性に問題のある区間0km	橋梁部の安全な走行速度の向上	10km/時	80km/時	橋梁部の許容荷重の向上	設計自動車荷重12トン	設計自動車荷重24.5トン
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(2) その他の成果指標 ・ 特になし																	
(3) 評価のタイミング 2013年(対象区間の供用開始)以降																	

資料 6. 参考資料/入手資料リスト

収集資料リスト

調査名 : ガーナ国 国道 8 号線改修計画基本設計調査

番号	名 称	形 態 図書・ビデオ 地図・写真等	オリジナル ・コピー	発行機関	発行年
1	Axel Load Control Status Report (Dec.2007)	図書	コピー	GHA	2007
2	Daily Graphic Article EU supports road Projects in E. Region	新聞記事	コピー	Daily Graphic	2008
3	The Ghanaian Times article MCA road projects to begin Sept.	新聞記事	コピー	The Ghanaian Times	2008
4	The Ghanaian Times article Road Construction Industry collapsing.as payment arrears mount	新聞記事	コピー	The Ghanaian Times	2008
5	Transport Sector Deve lopment Partners' Conference 2006-2007 Review Report VolumeII /Draft/	図書	コピー	航空、港湾鉄道、運輸省	
6	Accident Data on Anwiankwanta-Yamoransa Road (From 2000-2006)	図書	コピー		
7	Road Sector Development Programme (RSDP) Programme Management Report Fource Quarter 31st Dec.,2008	印刷	コピー	G H A	2007
8	Maintenance Organization Structure	図書	コピー	GHA	
9	Standard Details, Road Signs and Markings for urban and Trunk Roads	図書	コピー	Ministry of Roads and Highways	
10	Traffic Calming Measures Desing guideline Vewsion 2 -Feb. 2008	図書	コピー	GHA	2008
11	Terms of referencefor Consultancy Services for the Design Review and Construction Supervision	図書	コピー	GHA	
12	Traffic Counting Stations Zone 1 (Northan, upper West and East reagions)	図書	コピー	GHA	
13	Hydrogical Data on Pra at Assin Praso	図書	コピー	Hydrogical Services Department	
14	Adminstrative flow chart of the EA procedure	図書	コピー		
15	Adminstrative flow chart of the EA procedure	図書	コピー		
16	"Rehabilitation N8 and the Reconstruction od Assin Praso Bridge" Environmental Impact Assessment Registration Form	図書	コピー	G H A	2008