

資料一 1 調査団員・氏名

1. 調査団員・氏名

(1) 現地調査

氏名	担当業務	所属
上石 博人	総括	独立行政法人 国際協力機構 産業開発部 資源・エネルギーグループ 電力課 企画役
富谷 武史	調査企画	独立行政法人 国際協力機構 産業開発部 資源・エネルギーグループ 電力課
木村 聖	協力企画	独立行政法人 国際協力機構 アフリカ部 中西部アフリカ第一課
西川 光久	業務主任/電力計画/変電設備計画	八千代エンジニアリング株式会社
宮本 隆幸	送配電計画	八千代エンジニアリング株式会社
小田 幸司	土木・基礎構造/施設計画	八千代エンジニアリング株式会社
松原ひろみ	環境社会配慮	八千代エンジニアリング株式会社
阿部 真	副業務主任/調達・施工計画/積算	八千代エンジニアリング株式会社
宇留野厚人	業務調整/変電設備計画補助	八千代エンジニアリング株式会社

(2) 概略設計概要説明

氏名	担当業務	所属
上石 博人	総括	独立行政法人 国際協力機構 産業開発部 資源・エネルギーグループ 電力課 企画役
富谷 武史	調査企画	独立行政法人 国際協力機構 産業開発部 資源・エネルギーグループ 電力課
西川 光久	業務主任/電力計画/変電設備計画	八千代エンジニアリング株式会社
阿部 真	副業務主任/調達・施工計画/積算	八千代エンジニアリング株式会社

資料－2 調査行程

2. 調査行程

(1) 現地調査

No.	月日	曜日	調査内容		宿泊地
			官ベース (JICA)	コンサルタント団員 (八千代エンジニアリング(株))	
			上石、富谷 (11/14-25) 木村(11/18-31)	西川、宮本、小田、松原、阿部、宇留野	
1	11月14日	日	(上石、富谷) ●移動 {東京 11:10→ロンドン 14:25} (BA-006便)	●移動 {東京 12:30 → フランクフルト 16:35} (JL-407便)	ロンドン/フランクフルト
2	11月15日	月	(上石、富谷) ●移動 {ロンドン 14:20→ アクラ 21:00} (BA-081便)	●移動 {フランクフルト 12:05 → アクラ 17:40} (LH-566便)	アクラ
3	11月16日	火	●移動 {アクラ 13:10 → フリータウン 15:30 } (KQ-510便)		フリータウン
4	11月17日	水	●JICAシエラレオネフィールドオフィス表敬訪問及び本調査行程、内容の説明・協議 ●国家電力公社 (NPA) 表敬訪問及びインセプション・レポート、本調査行程等提出・説明・協議		フリータウン
5	11月18日	木	●エネルギー水資源省 (MEWR)、及びNPA表敬訪問及び本調査行程、「シ」国側便宜供与、現地調査手法等説明・協議 ●技プロに係るR/D署名 ●本計画サイト (送配電線ルート及び変電所用地) 視察 ●測量・ボーリングに係る現地確認 (コンサルのみ) ●(木村) 移動: 東京 11:10 →ロンドン 14:25 (BA006便)		フリータウン/ ロンドン
6	11月19日	金	●送配電網設備の要請内容に係る詳細確認 ●現地業者に質問表提出 ●(木村) 移動: ロンドン11:50 →フリータウン 19:45 (BD-967便)		フリータウン
7	11月20日	土	●既設各発電所・変電所及び配電線現地踏査 (Kingtom P/S, Freetown S/S, Regent S/S, Falcon bridge S/S, Blackhall road S/S, 11kV地中配電線ルート等) ●M/D案作成協議		フリータウン
8	11月21日	日	●団内協議・資料整理 ●将来S/S候補地(Jui)視察		フリータウン
9	11月22日	月	●M/D案協議 ●外務省及び財務経済開発省表敬訪問 ●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏査(コンサルチーム)		フリータウン
10	11月23日	火	●M/D案協議 ●NPAコンサルタント訪問 ●NPC訪問 (電力セクター改革の進捗確認) ●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏査(コンサルチーム)		フリータウン
11	11月24日	水	●M/Dの調印 ●JICAシエラレオネフィールドオフィスへ中間報告	●国家開発計画、社会経済状況に係る情報収集 ●NPAの収支状況、電気料金に係る調査 ●環境社会配慮に関わる調査	フリータウン
12	11月25日	木	(上石、富谷) ●移動: フリータウン 17:30→アクラ19:50 (KQ-511便) (木村) ●他案件作業	●ゴドリッチ変電所建設予定地並びに配電線ルート現地詳細調査 ●フリータウンの電力需給状況調査 (NPA) ●NPAの収支状況、電気料金に係る調査 ●環境社会配慮に関わる調査	フリータウン/ アクラ
13	11月26日	金	(上石、富谷) ●在ガーナ日本大使館及びJICAガーナ事務所へ報告 ●移動: アクラ 23:30 →ロンドン 06:25+1 (BA-078便) (木村) ●他案件作業	●環境社会配慮に関わる調査 ●事業費積算に係る調査 ●ゴドリッチ変電所建設予定地並びに33kV配電線ルート現地詳細調査	フリータウン/ 機内

No.	月日	曜日	調 査 内 容		宿 泊 地
			官ベース (JICA)	コンサルタント団員 (八千代エンジニアリング株)	
			上石、富谷 (11/14-25) 木村(11/18-31)	西川、宮本、小田、松原、阿部、宇留野	
14	11月27日	土	(上石、富谷) ●移動：ロンドン 12:35→東京 09:10+1 (BA-005便) (木村) ●他案件作業	●団内協議・資料整理 ●事業費積算に係る市場調査	フリータウン/ 機内
15	11月28日	日	(上石、富谷) ●移動：東京到着 09:10 (木村) ●他案件作業	●団内協議・資料整理	フリータウン
16	11月29日	月	(木村) ●他案件作業	●国家開発計画、社会経済状況に係る情報収集 ●フリータウン市開発計画の進捗確認 ●NPAの収支状況、電気料金に係る調査 ●環境社会配慮に関わる調査	フリータウン
17	11月30日	火	(木村) ●移動：フリータウン17:30→アク ラ19:50 (KQ-511便)	●ゴドリッチ変電所建設予定地並びに配電線ルート現地詳 細調査 ●環境社会配慮に関わる調査 ●積算関連資料収集 ●施設関連資料収集	フリータウン/ アクラ
18	12月1日	水	(木村) ●在ガーナ日本大使館及びJICA ガーナ事務所へ報告 ●移動：アクラ 23:30 →ロンドン 06:25+1 (BA-078便)	●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏 査 ●環境社会配慮に関わる調査 ●積算関連資料収集施設関連資料収集	フリータウン/ 機内
19	12月2日	木	(木村) ●移動：ロンドン 12:35 →東京 09:10+1 (BA005便)	●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏 査 ●港湾、輸送ルート調査 ●測量・試掘・ボーリングの進捗確認 ●補足資料・データの収集	フリータウン/ 機内
20	12月3日	金	(木村) ●東京到着 09:10	●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏 査 ●フィールドレポートの作成 ●測量・試掘・ボーリングの進捗確認 ●補足資料・データの収集	フリータウン
21	12月4日	土		●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏 査 ●フィールドレポートの作成 ●測量・試掘・ボーリングの進捗確認 ●補足資料・データの収集	フリータウン
22	12月5日	日		●団内協議・資料整理・市場調査 ●フィールドレポートの作成 ●補足資料・データの収集	フリータウン
23	12月6日	月		●ゴドリッチ変電所建設予定地並びに配電線ルート現地踏 査 ●フィールドレポートの作成 ●補足資料・データの収集	フリータウン
24	12月7日	火		●フィールドレポートの提出・協議	フリータウン
25	12月8日	水		●フィールドレポートの承認取得 ●MEWR 及びNPA表敬/報告 ●JICAシエラレオネフィールドオフィス表敬	フリータウン
26	12月9日	木		●移動 {フリータウン 17:30 → アクラ 19:50} (KQ-511便)	アクラ

No.	月日	曜日	調 査 内 容		宿 泊 地
			官ベース (JICA)	コンサルタント団員 (八千代エンジニアリング㈱)	
			上石、富谷 (11/14-25) 木村(11/18-31)	西川、宮本、小田、松原、阿部、宇留野	
27	12月10日	金		<ul style="list-style-type: none"> • JICA Ghana Office 表敬/報告 • 移動 {アクラ 23:30→ ロンドン 06:25+1} (BA-078便) 	機内
28	12月11日	土		<ul style="list-style-type: none"> • 移動 {ロンドン 19:00→ 東京 16:05+1} (JL-402便) 	機内
29	12月12日	日		<ul style="list-style-type: none"> • 移動 東京到着 16:05 	東京着

(2) 概略設計概要説明

No.	月日	曜日	調 査 内 容		宿 泊 地
			官ベース (JICA)	コンサルタント団員 (八千代エンジニアリング株)	
			上石、富谷	西川、阿部	
1	5月15日	日		●移動 {東京12:15→フランクフルト17:20} (JL-407便)	フランクフルト
2	5月16日	月	●移動 {東京10:55→ロンドン15:05} (BA-006便)	●移動 {フランクフルト14:35→アクラ19:00} (LH-566便)	ロンドン/アクラ
3	5月17日	火	●移動 {ロンドン14:00→フリータウン20:55} (KQ-510便)	●移動 {アクラ13:00→フリータウン15:20} (KQ-510便)	フリータウン
4	5月18日	水	<ul style="list-style-type: none"> ●09:00 ; JICAシエラレオネフィールドオフィス表敬訪問及び本調査行程、概略設計概要書の説明・協議 ●10:00 ; 国家電力公社 (NPA) 表敬訪問及び本調査行程説明・協議並びに環境関係手続きの確認 ●14:00 ; 世界銀行 (WB) との電話会談、既設ウィルバーホース変電所工事関連の協議 		フリータウン
5	5月19日	木	<ul style="list-style-type: none"> ●09:00 ; NPA; 概略設計概要書の説明・協議 ●12:00 ; エネルギー水資源省 (MEWR) 表敬訪問及び本調査行程、概略設計概要書の説明・協議 ●M/D案作成協議 ●既設発電所現地踏査 (Kingtom P/S, Blackhall road S/S) 		フリータウン
6	5月20日	金	<ul style="list-style-type: none"> ●概略設計概要書の説明・協議 ●M/D案作成協議 ●ウィルバーホース既設変電所、ゴドリッチ変電所建設予定地及び33kV配電線ルート、並びに2次変電所 (本計画裨益対象地域) 調査 		フリータウン
7	5月21日	土	●2次変電所 (本計画裨益対象地域) 調査		フリータウン
8	5月22日	日	●団内協議・資料整理		フリータウン
9	5月23日	月	●M/D協議		フリータウン
10	5月24日	火	<ul style="list-style-type: none"> ●M/D署名 ●JICAシエラレオネフィールドオフィスへ報告 ●移動 {フリータウン17:30→アクラ19:50} (KQ-511便) 		アクラ
11	5月25日	水	●報告準備作業	●移動 {アクラ23:45→ロンドン06:25+1} (BA-078便)	アクラ/機内
12	5月26日	木	<ul style="list-style-type: none"> ●10:00 ; 在ガーナ日本国大使館表敬報告 ●15:00 ; JICAガーナ事務所表敬報告 	●移動 {ロンドン19:15→東京15:00+1} (JL-402便)	アクラ/機内
13	5月27日	金	●日本へ帰国		東京着

資料－３ 関係者（面会者）リスト

3. 関係者（面会者）リスト

<u>所属及び氏名</u>	<u>職位</u>
エネルギー水資源省 Ministry of Energy and Water Resources: MEWR	
Prof. Ogunlade R. Davidson	Minister
財務・経済開発省 Ministry of Finance and Economic Development	
Mr. A. Jam Jalloh	Director of Planning, Ministry of Finance and Economic Development
Prf. Motoyoshi Suzuki	Executive Adviser (JICA Expert)
外務・国際協力省 Ministry of Foreign Affairs and International Cooperation	
Mr. U. S. Dura	Director
国家民営化委員会 National Commission for Privatization	
Mr. Abu Bangura	Chairman/Commissioner
シエラレオネ電力公社 National Power Authority (NPA)	
Dr. Zubairu Kaloko	General Manager
Mr. Denis John Scott Garvie	Deputy General Manager
Eng. Alex Mabuku Matala	Consultant/Commercial Director
Mr. John A. Kabia	System Planning Manager
Mr. Milton M. Gebbai	Senior Mechanical Engineer
Mr. Alex S. Jabba	T & D Department Ag. Manager
Mr. Francis V. Nyama	Electrical Engineer, Falcon Bridge

Mr. Edward Parkinson	Electrical Engineer, Falcon Bridge
Mr. Unisa Samura	Senior Electrical Engineer, Falcon Bridge
Mr. Foday I. Kamara	Electrical Superintendent
Mr. Yanson Taylor	Surveyor
Mr. Ken P Sondai	Safety Engineer

農林・食料安全保障省

Forestry Division, Ministry of Agriculture, Forestry and Food Security

Mr. Sheku A Mansary	Acting Director of Forestry
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シエラレオネ道路公社

Sierra Leone Roads Authority (SLRA)

Mr. Munda E Rogers	Director General
Mr. Sah Daniel Dugba	Director of Development
Ms. Memuna Kumba Jalloh	Road Assets Manager

シエラレオネ放送公団

Sierra Leone Broadcasting Corporation (SLBC)

Mr. Gbanabom Hallaoell	Director General
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土地・国土計画・環境省

Ministry of Lands, Country Planning and the Environment

Mr. Augustine Kai Banya	Director of Country Planning
Dr. William L Farmer	Director of Surveys and Lands

シエラレオネ環境保護局

**Sierra Leone Environmental Protection Agency (SLEPA),
Ministry of Lands, Country Planning and the Environment)**

Mr. Victor H O Sawyer	Deputy Director, Operations Policy Researching and Planning Department
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Mr. Syl Riors Kamara

Deputy Director, Field Operations and
Extension Department

Wilberforce 変電所改修工事 請負業者
Interserve Industrial Services Limited

Mr. Wilbert Mukori

Substation & HV Cable, Project Manager

JICA シエラレオネ・フィールド・オフィス
JICA Sierra Leone Field Office

吉川 正宏 氏

企画調査員

Mr. Joseph Cummings-Lewis

Programme Officer

JICA ガーナ事務所
JICA Ghana Office

山内 邦裕 氏

所長

木藤 耕一 氏

次長

大草 真紀 氏

企画調査員(民間・インフラセクター)

資料－4 討議議事録 (M/D)

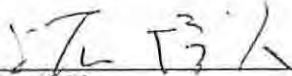
**Minutes of Discussions
on the Preparatory Survey on the Project for
Urgent Improvement of Power Distribution System in Freetown
in the Republic of Sierra Leone**

In response to the request from the Government of the Republic of Sierra Leone, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), in consultation with the Government of Japan, decided to conduct a Preparatory Survey (hereinafter referred to as "the Survey") on the Project for Urgent Improvement of Power Distribution System in Freetown (hereinafter referred to as "the Project").


JICA sent to the Republic of Sierra Leone the Preparatory Survey Team (hereinafter referred to as "the Team"), headed by Mr. Hiroto Kamiishi, Advisor for Electric Power Division, Natural Resources and Energy Group, Industrial Development Department, JICA. The Team is scheduled to stay in the country from November 16 to December 9, 2010.

The Team held discussions with the officials of concerned authorities in Sierra Leone (hereinafter referred to as "the Sierra Leonean side"). In the course of the discussions, both sides have confirmed the main items described in the sheets attached hereto.


Freetown, November 24th, 2010



Mr. Hiroto Kamiishi
Leader
Preparatory Survey Team
Japan International Cooperation Agency



Dr. Zubairu A. Kaloko,
General Manager,
National Power Authority



Prof. Ogunlade R. Davidson,
Minister,
Ministry of Energy and Water Resources



ATTACHMENT

1. Objective of the Project

The objective of the Project is to construct and rehabilitate the power distribution network in Goderich Area in Freetown

2. Project Site

The Project sites which are selected through the Survey and the analysis in Japan based on the request from the Sierra Leonean side are located in Goderich Area, Freetown as shown in Annex-1.

3. Responsible and Implementing Organization

- (1) The responsible ministry is the Ministry of Energy and Water Resources (MEWR).
- (2) The implementing organization is the National Power Authority (NPA).
- (3) The Organization Structure of NPA is shown in Annex-2.

4. Result of Analysis on the Survey

Based on the request from the Sierra Leonean side and the discussion between the Team and the Sierra Leonean side, both sides confirmed the priority (A, the highest, to D, the lowest) for the following components of the Project.

- | | |
|---|---|
| (1) Construction of 33/11kV Goderich Substation (S/S) | A |
| (2) Installation of 33kV Distribution Line (D/L) from Wilberforce S/S to Goderich S/S | A |
| (3) Rehabilitation of 11kV D/L | B |
| (4) Material supply of Low Voltage (L/V) distribution equipment and materials | C |

The Team explained that the requested 4 components are considered as candidate components to be implemented; however, the items of the components might be adjusted due to the budget frameworks of the Japanese side.

5. Japan's Grant Aid Scheme

- (1) JICA confirmed that the Sierra Leonean side understood Japan's Grant Aid Scheme explained by the Team as described in Annex-3 and 4.
- (2) The Sierra Leonean side will take the necessary measures, as described in Annex-5, for smooth implementation of the Project as prerequisites for the Japan's Grant Aid to be implemented.

6. Schedule of the Survey

The Team will continue the Survey in Sierra Leone until December 9, 2010.

7. Other Relevant Issues

(1) Status of the Survey

The Team explained that the purpose of the Survey is to collect information and data necessary for the outline design and cost estimation of the Project components which are confirmed through the Survey and the analysis in Japan.

(2) Submission of the Questionnaire

The Sierra Leonean side shall submit answers to the Questionnaire given by the Team before the end of November, 2010.

(3) Coordination among relevant donors and agencies

The Team requested the Sierra Leonean side to ensure coordination among relevant donors and agencies for smooth implementation of the Project. The Team explained to the Sierra Leonean side that the Project will face significant difficulties if the construction of 33kV D/L from Freetown S/S to Wilberforce S/S is not completed at least by the end of June, 2011. The Sierra Leonean side accepted to provide the Team with information regarding the construction schedule, commissioning date and specification of equipments of the above World Bank project.

(4) Environmental and Social Considerations

- a) The Team requested the Sierra Leonean side to conduct the required environmental procedures, and obtain approval on environmental clearance for implementation of the Project.
- b) The Sierra Leonean side agreed to comply with the JICA Guidelines for Environmental and Social Considerations (hereinafter referred to as "JICA Guidelines") as well as laws and regulations in Sierra Leone, and was requested to prepare Environmental Checklist and Monitoring Form which are designated by JICA Guidelines for an outline design.
- c) The Sierra Leonean side agreed to make necessary arrangements with governmental organizations concerned in order to secure funding for and execution of the above environmental matters in a schedule as required for smooth execution of the Project.
- d) The Sierra Leonean side agreed to complete necessary procedures by the end of April, 2011.

(5) Major Undertakings to be taken by the Sierra Leonean side

- a) The Sierra Leonean side agreed to undertake the following particular items out of general undertakings described in Annex-5.
- b) The Sierra Leonean side shall take necessary measures for obtaining the permissions as below in prior to the commencement of the implementation of the Project.
 - Permission(s) necessary to cut trees which may obstacle the installation and rehabilitation of D/L by the Project from relevant authorities.
 - Permission(s) necessary to install electric poles from land owner(s), in case electric pole(s) are to be installed in the private land(s).
 - Permission(s) necessary for enforcement of traffic controls during the installation and rehabilitation of 33/11 kV D/L from relevant authorities prior to the commencement of the Project.
- c) The Sierra Leonean side shall secure enough budget and human resources for the following undertakings in accordance with the implementation of the Project
 - Securing ownership of the land for proposed 33kV, 11kV and LV D/L and Substation.
 - Securing access road for transportation of the equipment and materials to the proposed Goderich Substation and 33kV D/L including removal work of obstacles.
- d) The Sierra Leonean side shall take necessary procedures in order to follow the tentative schedule (Annex 6) for implementation of the Project.

(6) Site for Goderich S/S

The Team conducted site reconnaissance of the proposed area for Goderich S/S and found that there could be a few options for the exact site. Both sides recognized that the exact site for the construction of the S/S needs to be decided in a timely manner in order to conduct detailed survey of the outline design and cost estimation of the Project during the Survey period. And both sides agreed to decide the site for the S/S by the end of November, 2010.

(7) Routes of the 33kV D/L

The Team conducted route reconnaissance of the proposed 33kV from Wilberforce S/S to Goderich S/S and found that there could be a few options for the exact route. Both sides

4. 協議議事録 (M/D)

agreed that the route of the 33kV D/L shall be decided by the end of November, 2010 based on the Survey regarding feasibility of construction and maintenance, environmental and social considerations.

(8) 11kV and LV D/L

- a) Both sides agreed that the Project provides equipments for 11kV and that the Sierra Leonean side conducts the construction of 11kV networks. The Sierra Leonean side, however, requested the Team to construct some parts of the installation of 11kV D/L such as the parts where 33kV lines and 11kV lines are to be installed in parallel.
- b) The Sierra Leonean side also explained the importance and requested the Team to provide necessary materials and equipment for the construction of LV networks in order to better distribute the development fruit to beneficiaries.
- c) The Team, confirming that the installation works of the LV D/L would be undertaken by the Sierra Leonean side, recognized the importance and agreed to consider the possibility of the provision and the construction of LV D/L, discussing with authorities concerned in Japan.

(9) The priority of areas for installation and rehabilitation of 11kV and LV D/L

The Team requested the Sierra Leonean side to clarify and explain the priority of areas for rehabilitation of 11kV D/L and supply of LV distribution equipment and materials to the Team during the Survey. The both sides agreed that the priorities are made by particularly considering beneficiaries of the Project including the public and welfare facilities such as schools, hospitals, clinics and water-supply facilities. The Sierra Leonean side agreed to clarify such beneficiaries of each area before the end of the Survey.

(10) Collaboration between the Grant Aid and the Technical Cooperation

The Team requested the Sierra Leonean side to conduct construction works for installation and rehabilitation of 11kV D/L during the implementation period of the technical cooperation titled "The Project for Capacity Development for Maintaining Power Supply Facilities," whose implementation was mutually recognized by the Sierra Leonean side and JICA in the Record of Discussions signed on November 18th, 2010. The technical cooperation will support the installation and maintenance of D/L installed by the Project.

(11) Presidential Election planned in 2012

The Team has mentioned the possibility that the political events in 2012 in the Republic of Sierra Leone would affect the schedule of the Project. The Sierra Leonean side, while pointing out that there would be little possibility of affecting the schedule, agreed that the schedule might be modifiable due to the proceedings of the political events in 2012. The Sierra Leonean side also proposed to provide the information regarding the matters and expressed that they would take every effort for the smooth implementation of the Project.

(End)

- Annex-1 Project Sites
- Annex-2 Organization Chart of NPA
- Annex-3 Japan's Grant Aid
- Annex-4 Flow Chart of Japan's Grant Aid Procedures
- Annex-5 Major Undertakings to be taken by Each Government
- Annex-6 Tentative Implementation Schedule



- Legend
- - - - - : Planned 33kV Dist. Line
 - : Planned Coverage Area LV Network

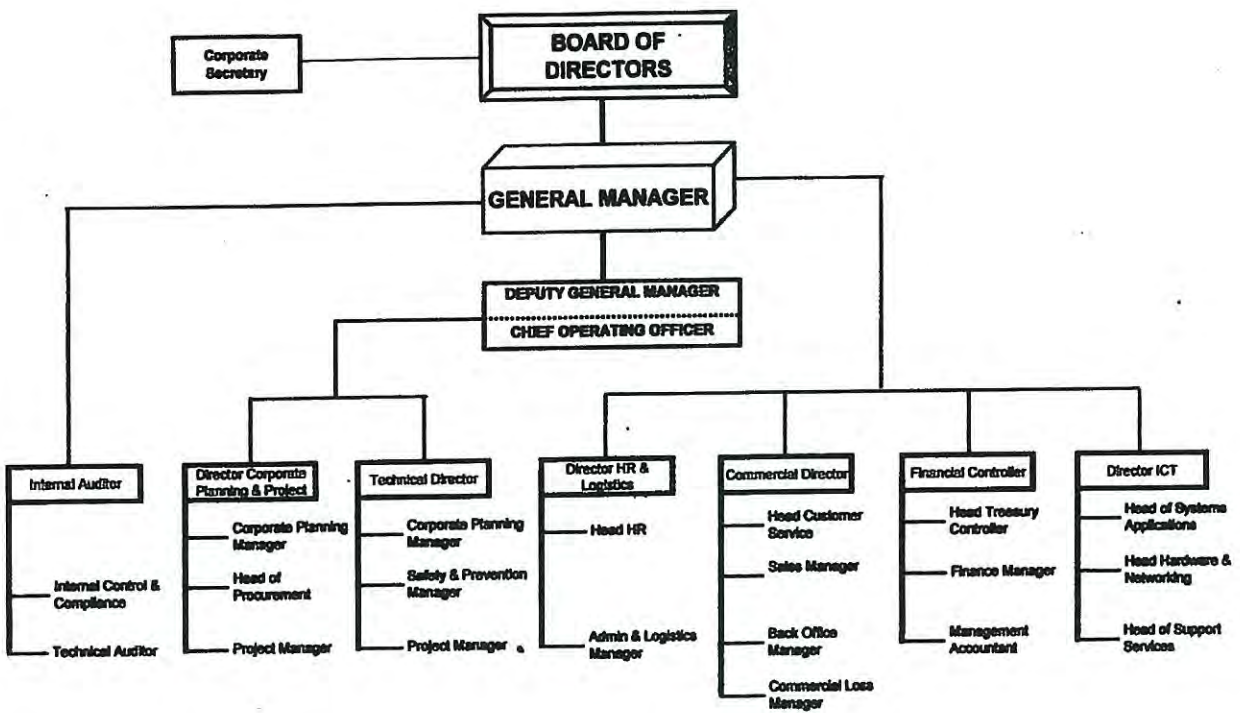
Tentative Planned 33kV Distribution Line and Coverage Area of LV Network

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PROPOSED ORGANIZATIONAL CHART OF NATIONAL POWER AUTHORITY



Annex-2 Organization Chart of NPA

Japan's Grant Aid

The Government of Japan (hereinafter referred to as "the GOJ") is implementing the organizational reforms to improve the quality of ODA operations, and as a part of this realignment, a new JICA law was entered into effect on October 1, 2008. Based on this law and the decision of the GOJ, JICA has become the executing agency of the Grant Aid for General Projects, for Fisheries and for Cultural Cooperation, etc.

The Grant Aid is non-reimbursable fund provided to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for its economic and social development 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

The Japanese Grant Aid is supplied through following procedures :

- Preparatory Survey
 - The Survey conducted by JICA
- Appraisal & Approval
 - Appraisal by the GOJ and JICA, and Approval by the Japanese Cabinet
- Authority for Determining Implementation
 - The Notes exchanged between the GOJ and a recipient country
- Grant Agreement (hereinafter referred to as "the G/A")
 - Agreement concluded between JICA and a recipient country
- Implementation
 - Implementation of the Project on the basis of the G/A

2. Preparatory Survey

(1) Contents of the Survey

The aim of the preparatory Survey is to provide a basic document necessary for the appraisal of the Project made by the GOJ and JICA. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of a basic design of the Project.

4. 協議議事録 (M/D)

- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve 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 of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

3. Japan's Grant Aid Scheme

(1) The E/N and the G/A

After the Project is approved by the Cabinet of Japan, the Exchange of Notes(hereinafter referred to as "the E/N") will be signed between the GOJ and the Government of the recipient country to make a pledge 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) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese 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".

(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 JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) 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) "Proper Use"

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

(7) "Export and Re-export"

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

(8) Banking Arrangements (B/A)

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

(9) Authorization to Pay (A/P)

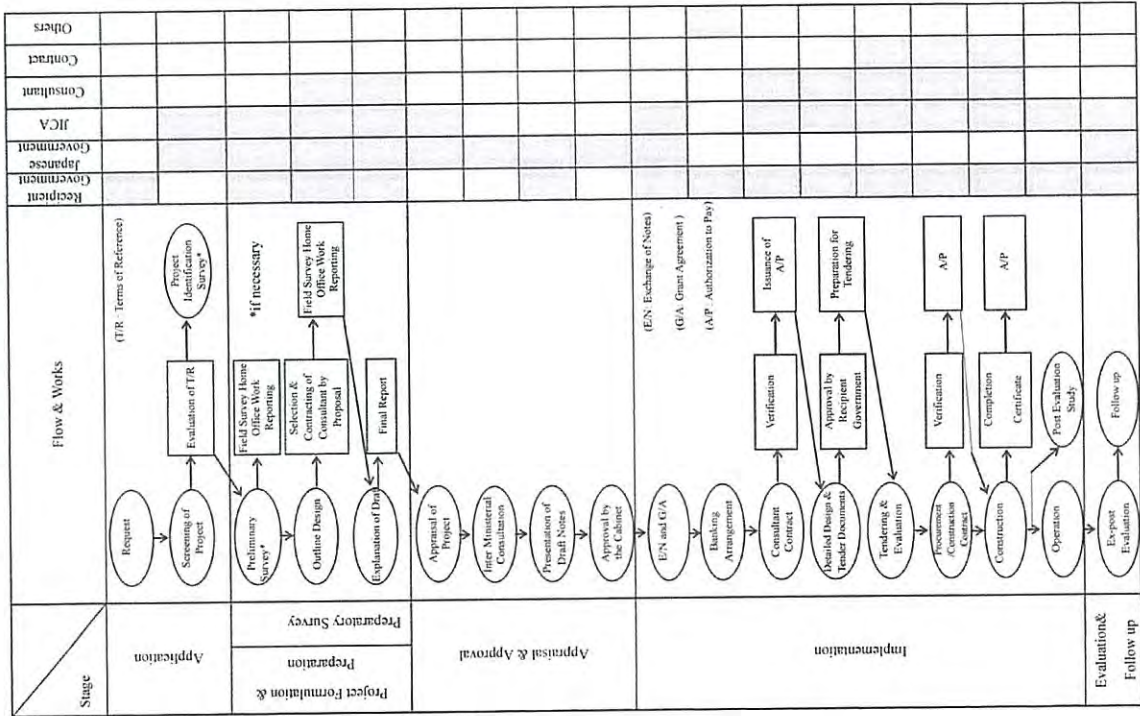
The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

(10) Social and Environmental Considerations

A recipient country must carefully consider social and environmental impacts by the Project and must comply with the environmental regulations of the recipient country and JICA socio-environmental guidelines.

(End)

Flow Chart of Japan's Grant-Aid Procedures



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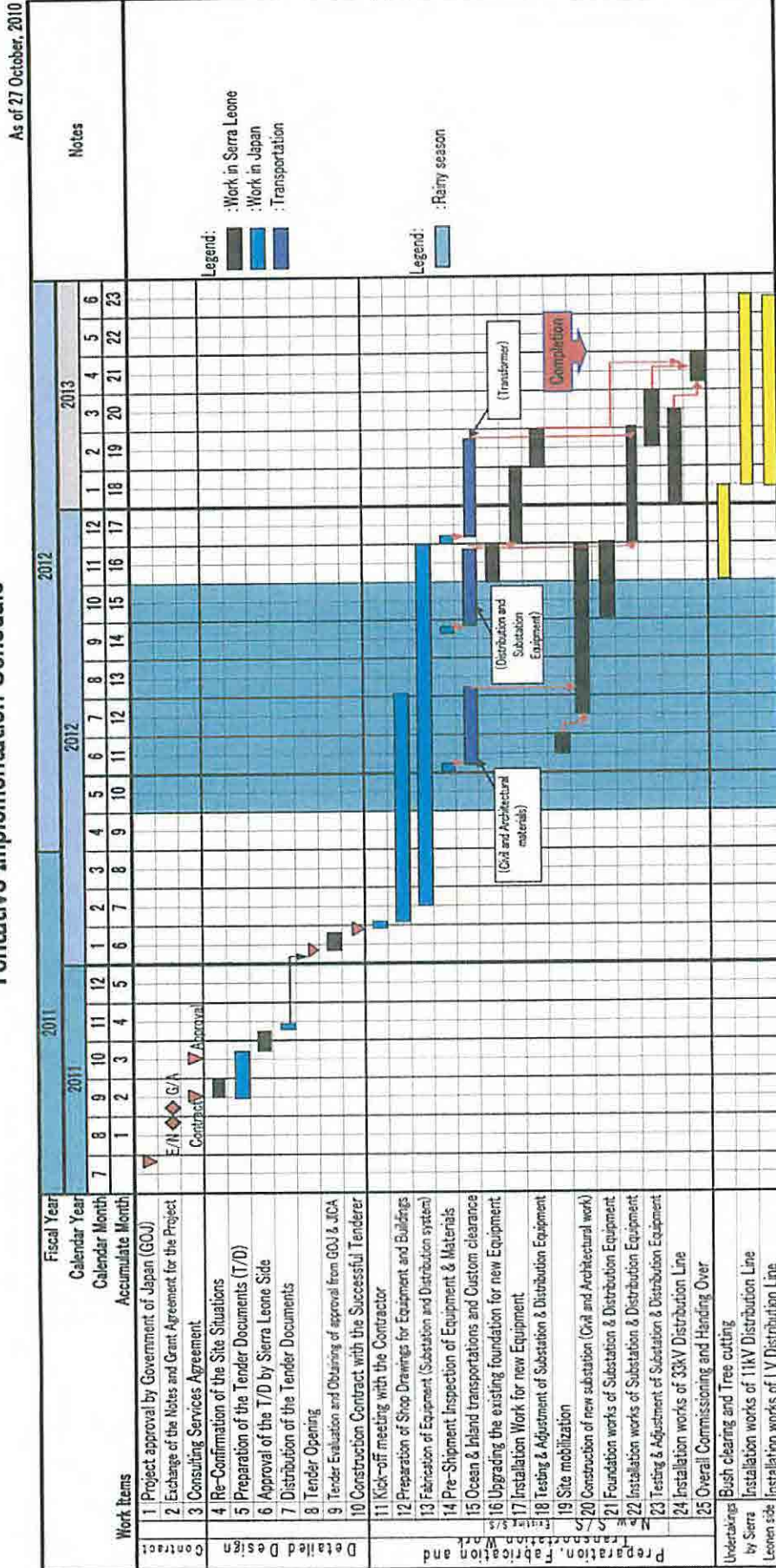
Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient side
1	to secure lots of land necessary for the implementation of the Project and to clear the sites;		●
2	To construct the following facilities		
	1) The building	●	
	2) The gates and fences in and around the site		●
	3) The parking lot	●	
	4) The road within the site	●	
	5) The road outside the site		●
3	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the sites		
	1) Electricity		
	a. The distributing power 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)	●	
	3) Drainage		
	a. The city drainage main (for storm sewer and others to the site)		●
	b. The drainage system (for toilet sewer, common waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site	n/a	n/a
	b. The gas supply system within the site	n/a	n/a
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
4	To ensure prompt unloading and customs clearance of the products at ports of disembarkation in the recipient country and to assist internal transportation of the products		
	1) Marine (Air) transportation of the Products from Japan and/or 3 rd countries 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 site	●	
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the purchase of the products and the services be exempted		●
6	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
7	To ensure that the Facilities and the products be maintained and used properly and effectively for the implementation of the Project		●
8	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		●
9	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
10	To give due environmental and social considerations in the implementation of the Project.		●

*1 B/A : Banking Arrangement, A/P : Authorization to pay)

Annex-6

Tentative Implementation Schedule



**Minutes of Discussions
on the Preparatory Survey on the Project for
Urgent Improvement of Power Distribution System in Freetown
in the Republic of Sierra Leone**

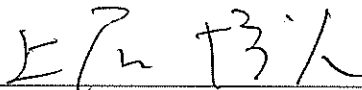
(Explanation on Draft Final Report)

In response to the request from the Government of the Republic of Sierra Leone (hereinafter referred to as “Sierra Leone”), the Japan International Cooperation Agency (hereinafter referred to as “JICA”), in consultation with the Government of Japan, decided to conduct a Preparatory Survey (hereinafter referred to as “the Survey”) on the Project for Urgent Improvement of Power Distribution System in Freetown (hereinafter referred to as “the Project”). From November to December 2010, JICA dispatched the Survey Team to Sierra Leone; and through discussions, field surveys and the result of technical examination in Japan, JICA prepared a Draft Final Report of the Survey.

In order to explain and to consult with the officials of concerned authorities in Sierra Leone (hereinafter referred to as “the Sierra Leonean side”) on the contents of the Draft Final Report, JICA dispatched to Sierra Leone the Preparatory Survey Team for Draft Final Report Explanation (hereinafter referred to as “the Team”), which is headed by Mr. Hiroto Kamiishi, Advisor of JICA, from May 17th to 24th, 2011.

In the course of the discussions, both sides have confirmed the main items described in the sheets attached hereto.

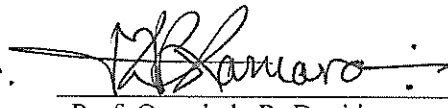
Freetown, May 24th, 2011



Mr. Hiroto Kamiishi
Leader
Preparatory Survey Team
Japan International Cooperation Agency



Dr. Zubairu A. Kaloko
General Manager
National Power Authority

for. 

Prof. Ogunlade R. Davidson
Minister
Ministry of Energy and Water Resources

ATTACHMENT

1. Contents of the Draft Final Report

The Sierra Leonean side agreed and accepted in principle the contents of the Draft Final Report and the Draft Technical Specifications of the Survey explained by the Team.

2. Responsible and Implementing Organizations

- (1) The responsible ministry is the Ministry of Energy and Water Resources (MEWR).
- (2) The implementing organization is the National Power Authority (NPA).
- (3) The Organization Structure of MEWR and NPA is shown in Annex-1 and 2 respectively.

3. Components of the Project

The following (1) to (4) are selected as the Project Components through the Survey. Annex-3 shows the location of project sites.

- (1) Construction of 33/11kV Goderich Substation (S/S)
- (2) Installation of 33kV Distribution Line (D/L) from Wilberforce S/S to Goderich S/S
- (3) Rehabilitation of 11kV D/L
- (4) Material supply of Low Voltage (L/V) distribution equipment and materials

The Team explained that the above components are considered as candidate components to be implemented. However, the components might be reduced due to the budget constraints of the Japanese side.

4. Japan's Grant Aid Scheme

The Sierra Leonean side reconfirmed the Japan's Grant Aid Scheme and the necessary measures to be taken by the Sierra Leonean side explained by the Team as described in Annex-4 and Annex-5 respectively.

5. Project Cost

The Sierra Leonean side agreed that the cost for the Project should not exceed the amount agreed on Exchange of Notes (E/N). The Sierra Leonean side also agreed that the cost for the Project contains procurement cost of equipment, transportation cost up to the Project site, installation cost and the Consultant fees.

6. Confidentiality of the Project

- (1) Detailed specifications of the Facilities and Equipment

Both sides agreed that all the information related to the Project including detailed drawings and specifications of the facilities and equipment and other technical information shall not be disclosed to any outside parties (i.e. outside of JICA and the Sierra Leonean side) before the conclusion of all contract(s) for the Project.

- (2) Confidentiality of the Cost Estimation

The Team explained the estimated cost of the Project as described in Annex-6. Both sides agreed that the estimated cost for the Project should never be duplicated or disclosed to any outside parties (i.e. outside of JICA and the Sierra Leonean side) before tender for the Project. The Sierra Leonean side understood that the estimated cost for the Project attached as Annex-6 is not the final and is subject to change as a result of examination through revision of the Outline Design Study.

7. Possibility of Change in Scope, Schedule and Cost of the Project

The Team stressed that the scope, the schedule, and the cost for the Project are tentative and subject to change due to the domestic circumstances in Japan and in Sierra Leone. The Sierra Leonean side understood it.

8. Other Relevant Issues

(1) Completion of 33kV D/L from Freetown S/S to Wilberforce S/S

The Team requested the Sierra Leonean side to complete the construction of 33kV D/L from Freetown S/S to Wilberforce S/S including the procurement and installation of 33kV switchgears at Wilberforce S/S, as the successful and timely installation of the facilities is a critical condition to fully enhance the effectiveness of the Project. The construction should be completed before the Project's stage of renovation work such as concrete cutting for cable pit at Wilberforce S/S. To better monitor the progress of the construction, both sides agreed that the procurement and the construction schedule shall be confirmed by the time of the Grant Agreement.

(2) Environmental and Social Considerations

- a) The Team requested the Sierra Leonean side to conduct the required environmental works, and obtain approval on environmental clearance for implementation of the Project
- b) The Sierra Leonean side agreed to comply with the JICA's Guidelines for Environmental and Social Considerations (hereinafter referred to as "JICA Guidelines") as well as laws and regulations in Sierra Leone.
- c) The Sierra Leonean side explained the latest progress of EIA (Environmental Impact Assessment) for the Project study for the components and agreed to complete necessary procedures by the end of June, 2011. The Sierra Leonean side explained to the Team that the application for EIA license has already been submitted to the Environment Protection Agency, and the Team recognized it.
- d) The Team requested the Sierra Leonean side to complete the resettlement plan and submit it to the Ministry of Lands, Country Planning and the Environment by the end of June, 2011 and implement resettlement activities in a timely manner which was prepared in accordance with Sierra Leonean Laws and JICA Guidelines.
- e) The Sierra Leonean side agreed to make necessary arrangements with governmental organizations concerned in order to secure funding for and execution of the above environmental and social considerations matters in a schedule as required for smooth implementation of the Project.

(3) Counterpart Personnel

The Team requested the Sierra Leonean side that necessary number of counterpart personnel shall be assigned to the Project and necessary arrangements with related organizations be made during the Survey and implementing stage in Sierra Leone.

(4) Customs Duties and Tax Exemption

The Sierra Leonean side agreed that MEWR shall be responsible for the exemption of all customs, tax, levies and duties incurred in Sierra Leone for the implementation of the Project.

(5) Major Activities to be undertaken by the Sierra Leonean side.

- a) The Sierra Leonean side agreed to undertake the following particular items out of general undertakings described in Annex-5 and the Draft Final Report.
- b) The Sierra Leonean side shall take necessary measures for obtaining the permissions as below.
 1. Permission(s) necessary to cut trees which may be obstacle to the installation and rehabilitation of D/L by the Project from relevant authorities before the

- contract between the NPA and the successful tenderer.
2. Permission(s) necessary to install electric poles from land owner(s), in case electric pole(s) are to be installed in private land(s), before the commencement of the installation work by the Japanese contractor.
 3. Permission(s) necessary for enforcement of traffic controls during the installation and rehabilitation of 33/11 kV D/L from relevant authorities prior to the commencement of the Project.
- c) The Sierra Leonean side shall secure enough budget and human resources for the following undertakings in accordance with the implementation of the Project
1. Ownership of the land for proposed Goderich substation, 33kV, 11kV and LV D/L.
 2. Installation of 11kV D/L between Peninsular Secondary S/S and Goderich Village Secondary S/S using the equipment and materials provided by the Project. The work should be done in accordance with the overall schedule of the Project and be completed before the completion of the Project.
 3. Construction of Goderich-2 Secondary S/S and Goderich Village Secondary S/S using the equipment and materials provided by the Project. The work should be done in accordance with the overall schedule of the Project and be completed before the completion of the Project.
 4. Installation of the entire LV D/L using the equipment and materials provided by the Project. The work should be done in accordance with the overall schedule of the Project and be completed before the completion of the Project.
 5. Securing access road for transportation of the equipment and materials to the proposed Goderich Substation and 33kV D/L including removal work of obstacles before the commencement of the work by Japanese contractor.
 6. Land leveling and preparation, weeding and removal of obstacles in the sites before the commencement of the work by Japanese contractor.
 7. Installation of fences and gates in and around the sites of new substations to be used after completion of Project.
 8. Exemption or payment of registration fee for Japanese supervisors and engineers for the construction period.

(6) The priority of areas for installation and rehabilitation of 11kV and LV D/L

Both sides agreed on the priority of areas for rehabilitation of 11kV D/L and supply of LV distribution equipment and materials. The priorities are put in the areas where public and welfare facilities (such as schools, hospitals, clinics and water-supply facilities) are located.

(7) Collaboration between the Grant Aid and the Technical Cooperation

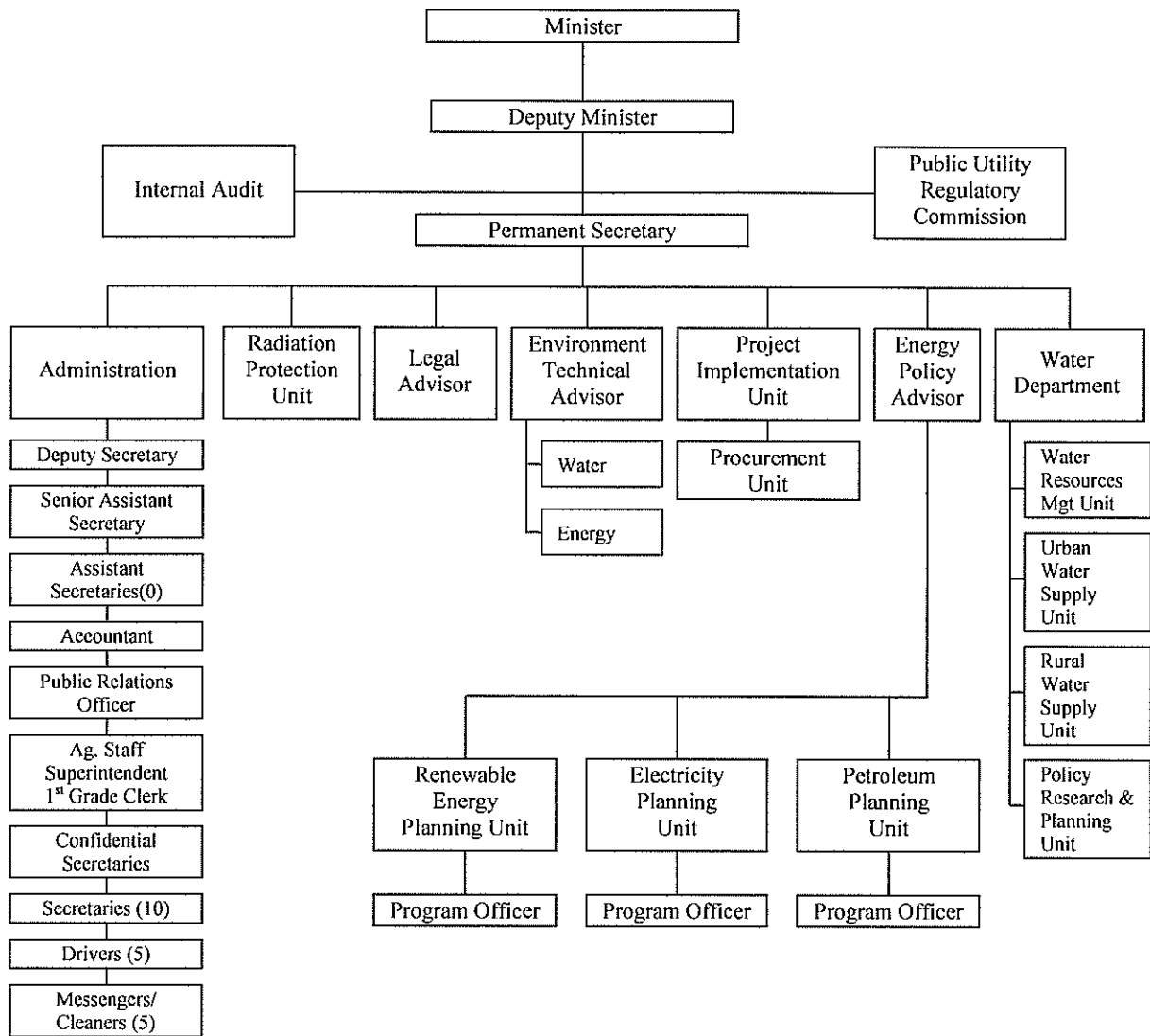
Both sides agreed that the technical cooperation titled “The Project for Capacity Development for Maintaining Power Supply Facilities,” the period of which is from March 2011 to March 2014, will technically support the Project’s installation and maintenance work of 11kV and LV D/L.

(End)

[List of Annex]

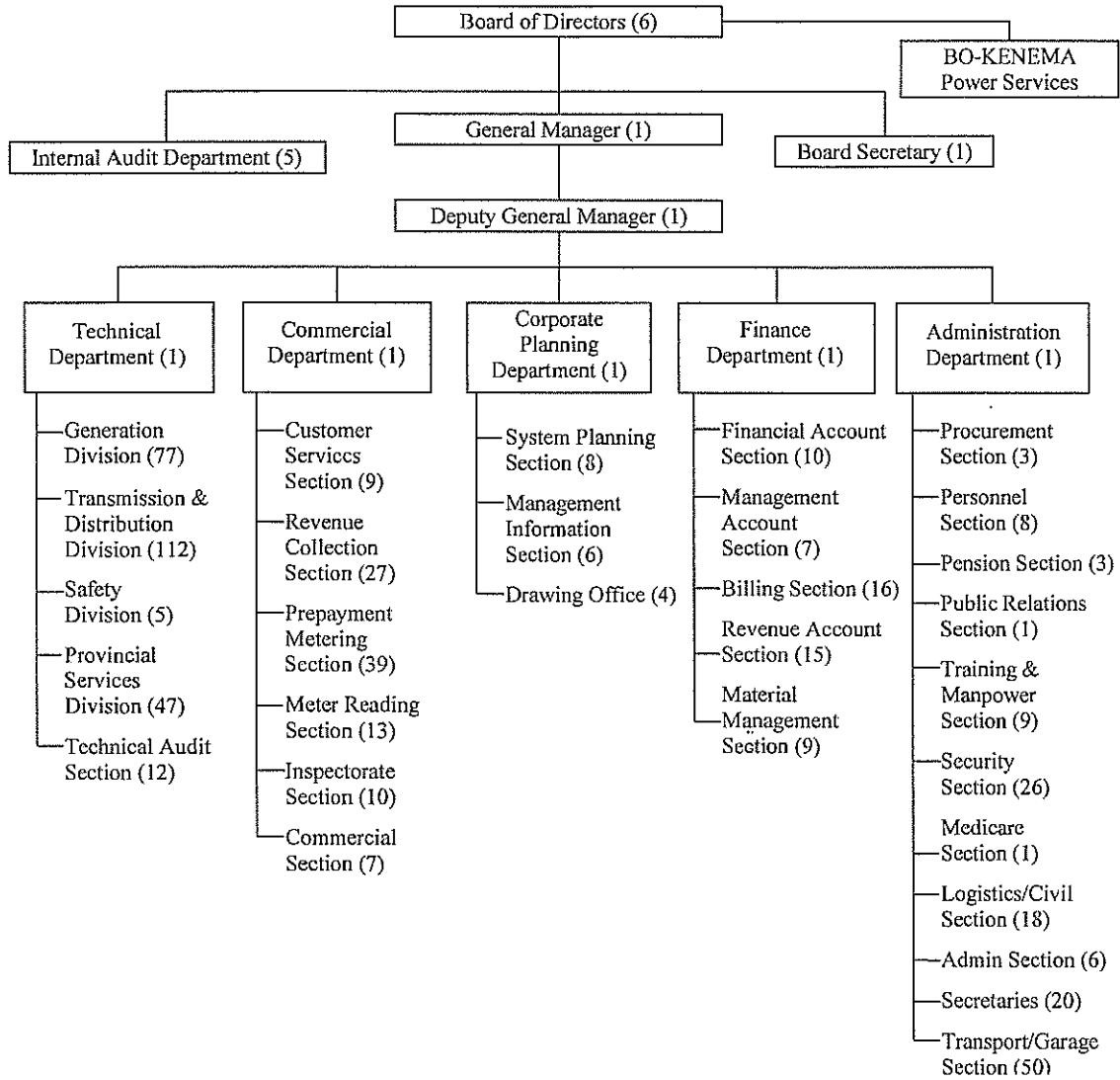
- Annex-1: Organization Chart of MEWR
- Annex-2: Organization Chart of NPA
- Annex-3: Location of Project Sites
- Annex-4: Japan’s Grant Aid
- Annex-5: Major Undertakings to be taken by Each Government
- Annex-6: Estimated Project Cost (Confidential)





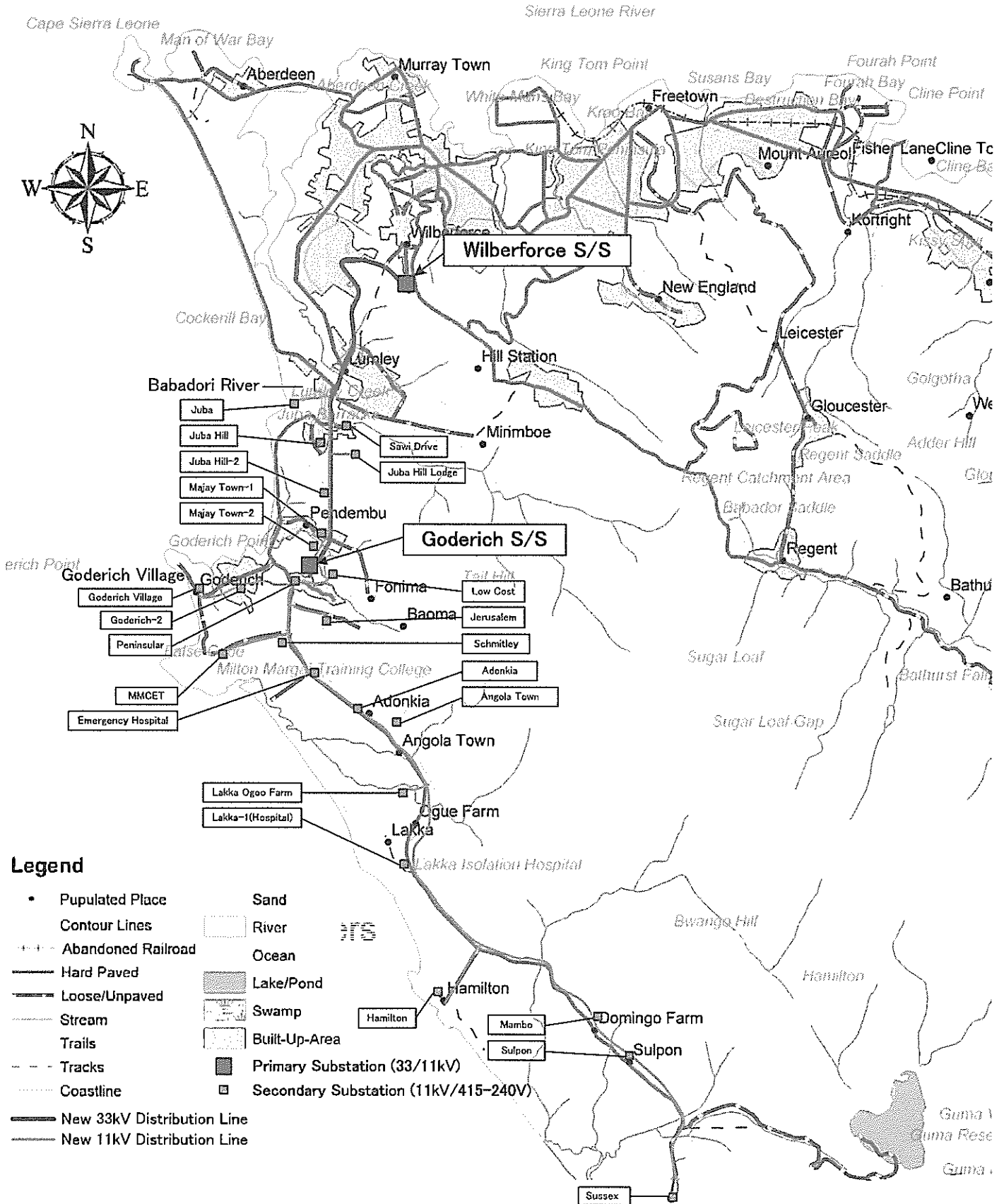
Organization Chart of MEWR

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National Power Authority Organogram as at November 2010

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Location of Project Sites

[Handwritten signatures and initials]

JAPAN'S GRANT AID

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2. Preparatory Survey

(1) Contents of the Survey

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- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of relevant agencies of the recipient country necessary for the implementation of the Project.
- Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, financial, social and economic point of view.
- Confirmation of items agreed between both parties concerning the basic concept of the Project.
- Preparation of a basic design of the Project.
- Estimation of costs of the Project.

The contents of the original request by the recipient country are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed based on the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures necessary to achieve 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 of the recipient country which actually implements the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country based on the Minutes of Discussions.

(2) Selection of Consultants

For smooth implementation of the Survey, JICA employs (a) registered consulting firm(s). JICA selects (a) firm(s) based on proposals submitted by interested firms.

(3) Result of the Survey

JICA reviews the Report on the results of the Survey and recommends the GOJ to appraise the implementation of the Project after confirming the appropriateness of the Project.

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After the Project is approved by the Cabinet of Japan, the Exchange of Notes (hereinafter referred to as “the E/N”) will be signed between the GOJ and the Government of the recipient country to make a pledge 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.

4. 協議議事録 (M/D)

(2) Selection of Consultants

In order to maintain technical consistency, the consulting firm(s) which conducted the Survey will be recommended by JICA to the recipient country to continue to work on the Project's implementation after the E/N and G/A.

(3) Eligible source country

Under the Japanese 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".

(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 JICA. This "Verification" is deemed necessary to fulfill accountability to Japanese taxpayers.

(5) 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) "Proper Use"

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

(7) "Export and Re-export"

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

(8) Banking Arrangements (B/A)

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

(9) Authorization to Pay (A/P)

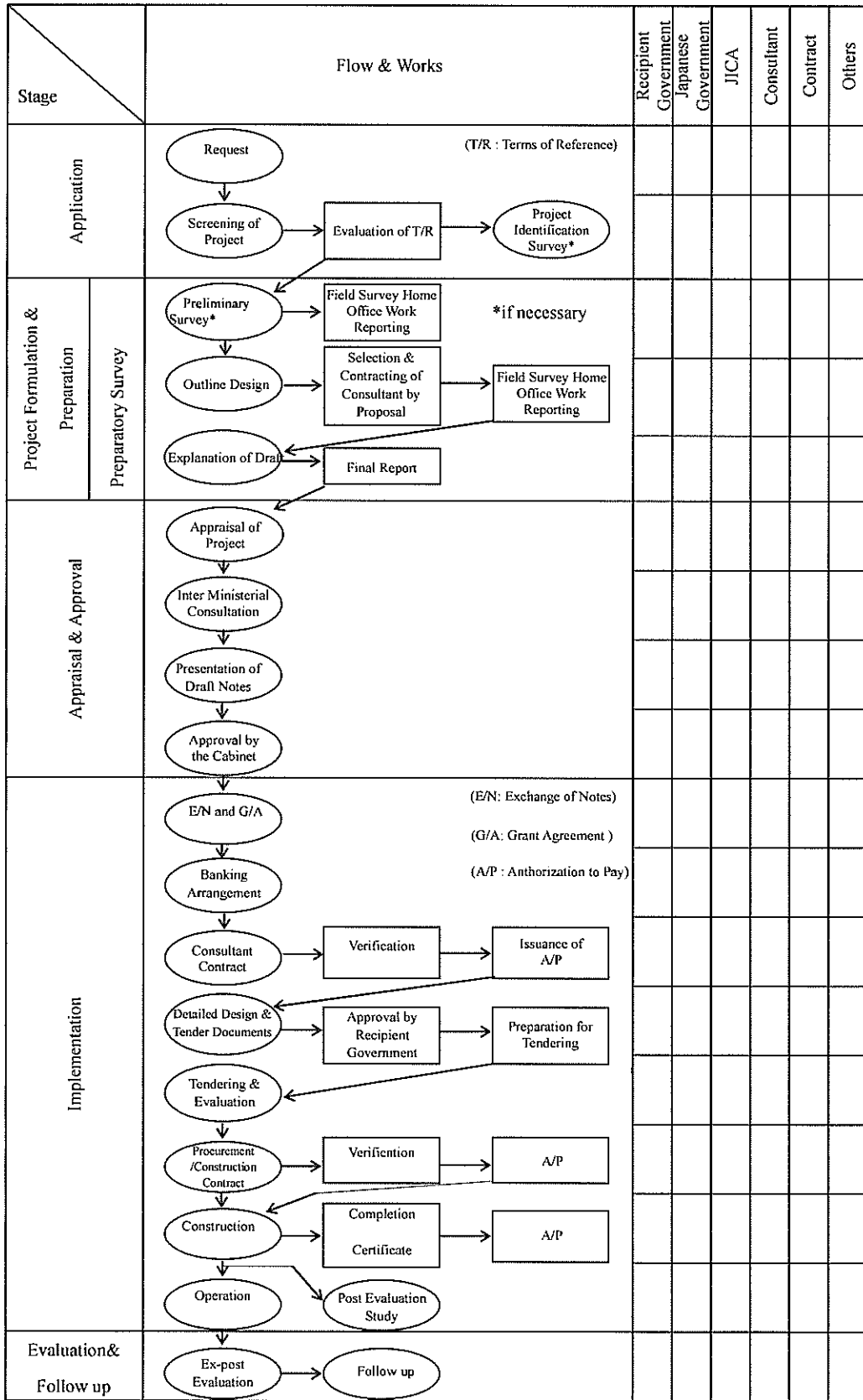
The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions paid to the Bank.

(10) Social and Environmental Considerations

A recipient country must carefully consider social and environmental impacts by the Project and must comply with the environmental regulations of the recipient country and JICA socio-environmental guidelines.

(End)

Flow Chart of Japan's Grant Aid Procedures



Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient side
1	to secure lots of land necessary for the implementation of the Project and to clear the sites;		●
2	To construct the following facilities		
	1) The building	●	
	2) The gates and fences in and around the site		●
	3) The parking lot	●	
	4) The road within the site	●	
	5) The road outside the site		●
3	To provide facilities for distribution of electricity, water supply and drainage and other incidental facilities necessary for the implementation of the Project outside the sites		
	1) Electricity		
	a. The distributing power 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)	●	
	3) Drainage		
	a. The city drainage main (for storm sewer and others to the site)		●
	b. The drainage system (for toilet sewer, common waste, storm drainage and others) within the site	●	
	4) Gas Supply		
	a. The city gas main to the site	n/a	n/a
	b. The gas supply system within the site	n/a	n/a
	5) Telephone System		
	a. The telephone trunk line to the main distribution frame/panel (MDF) of the building		●
	b. The MDF and the extension after the frame/panel	●	
	6) Furniture and Equipment		
	a. General furniture		●
	b. Project equipment	●	
4	To ensure prompt unloading and customs clearance of the products at ports of disembarkation in the recipient country and to assist internal transportation of the products		
	1) Marine (Air) transportation of the Products from Japan and/or 3 rd countries 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 site	●	
5	To ensure that customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the purchase of the products and the services be exempted		●
6	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
7	To ensure that the Facilities and the products be maintained and used properly and effectively for the implementation of the Project		●
8	To bear all the expenses, other than those covered by the Grant, necessary for the implementation of the Project		●
9	To bear the following commissions paid to the Japanese bank for banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
10	To give due environmental and social considerations in the implementation of the Project.		●

*1 B/A : Banking Arrangement, A/P : Authorization to pay)

Project Cost Estimation (Confidential)

This cost estimate is provisional and would be further examined by the Government of Japan for the approval of the Grant Aid.

This page is closed due to the confidentiality



資料－5 環境影響評估(EIA)申請書
(NPA→MEWR)



National Power Authority

(Incorporating Former Sierra Leone Electricity Corporation)

CABLES: ELECTRON FREETOWN

Telex: 3268

Fax: 232-22-224067

232-22-225784

232-22-226324

Your Ref:

Our Ref:

The Permanent Secretary
Ministry of Energy & Water Resources
Electricity House (4th Floor)
Freetown

Dear Sir

**APPLICATION FOR AN EIA LICENSE FOR THE
CONSTRUCTION, REHABILITATION AND INSTALLATION OF
33/11KV SUBSTATION & DISTRIBUTION LINE**

The Government of Sierra Leone is about to benefit from the Japanese Granting Aid Project with the National Power Authority as the implementing Agency. The contents planned in the Japanese Granting Aid Project are as follows:

1. Construction of 33/11KV Goderich substation
2. Installation of 33KV distribution line from Wilberforce Street to Goderich Street
3. Part of rehabilitation of 11KV distribution line.

It is a pre-requisite that for the successful execution of such a project, an environmental impact assessment is required and this exercise could not commence in the absence of an **EIA License**.

We would therefore be very grateful, if you could use your office to help us acquire an **EIA License** for the aforementioned project.

Thank you in advance for your co-operation.

Yours faithfully

Dr. Zubairu A. Kaloko
General Manager

c.c. Ag. DGM

HEAD OFFICE:

Electricity House
36 Siaka Stevens Street, Freetown
Republic of Sierra Leone, West Africa

Telephone: 224361/4, 225720/3

Postal Address: Privat Mail Bag 318
Freetown

25th November 2010

DATE.....

資料－6 環境チェックリスト・
モニタリングプランの提出レター
(NPA→JICA)



National Power Authority

(Incorporating Former Sierra Leone Electricity Corporation)

CABLES: ELECTRON FREETOWN

Telex: 3268

Fax: 232-22-224067

232-22-225784

232-22-226324

HEAD OFFICE:

Electricity House

36 Siaka Stevens Street, Freetown
Republic of Sierra Leone, West Africa

Telephone: 224361/4, 225720/3

Postal Address: Privat Mail Bag 318
Freetown

DATE.....

Your Ref:

Our Ref:

December 8th, 2010

Mr. Hiroto Kamiishi
Leader
Preparatory Survey Team
Japan International Cooperation Agency (JICA)

Subject: Submission of Environmental Checklist and Monitoring Plan

**Project: The Project for Urgent Improvement of Power Distribution System in Freetown
in the Republic of Sierra Leone**

In response to a request from Japan International Cooperation Agency (JICA) through the Preparatory Survey Team, the National Power Authority hereby submit Environmental Checklist and Monitoring Plan as attached for the Project for Urgent Improvement of Power Distribution System in Freetown in the Republic of Sierra Leone under the Japan's grant aid.

Best Regards,

Denis John Scott Garvie
Deputy General Manager,
National Power Authority

Attachment

1. Environmental Checklist
2. Monitoring Plan
3. Table of Contents of the brief resettlement action plan
4. Copy of EIA license application

資料－7 環境チェックリスト・
モニタリングプラン

7. 環境チェックリスト・モニタリングプラン

Attachment 1 Environmental Checklist

Category	Environmental Item	Main Check Items	Status	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)	Remarks
	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process? (b) Have EIA reports been approved by authorities of the host country's government? (c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied? (d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	(a) Under preparation (b) Under preparation (c) No (d) Unrelated	(a) Environmental Impact Assessment (EIA) report is under preparation. NPA will submit EIA report to Sierra Leone Environmental Protection Agency (SLEPA) by the end of February 2011. (b) EIA approval (license) will be issued by April 2011. (c) NPA confirmed SLEPA in November 2010 that EIA report did not have any conditions because the Project is one of the public works. (d) There are not any requirements except for EIA license.	See Attachment 4
1 Permits and Explanation	(2) Explanation to the Local Stakeholders	(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders? (b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?	(a) Under preparation (b) Under preparation	(a) For this Project, execution of public consultation meeting is required to EPA Act 2008. NPA will arrange and conduct the explanation to the related residents and agencies about the Project, construction schedule and method before the commencement of the Project. (b) In case that NPA receives any comments from the public and regulatory authorities, NPA is willing to discuss and arrange any necessary procedure to implement the Project appropriately.	
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	(a) Yes	(a) Alternative plans of the Project were examined with social and environmental considerations, and from the technical and economical view points, such as safety, workability, operation and maintenance.	
2 Pollution Control	(1) Water Quality	(a) Is there any 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? If the water quality degradation is anticipated, are adequate measures considered?	(a) No	(a) There is no possibility of soil runoff from the bare lands resulting from earthmoving activities.	
	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a) No	(a) There is a protected area, "Western Area Peninsula Forest Reserve (WAPFR)", near the Project site. However, the Project site does not intrude into the core protection areas of WAPFR. The site of Goderich Substation will be the Government site and the 33kV and 11kV distribution lines will be installed along the existing roads.	

7. 環境チェックリスト・モニタリングプラン

Attachment 1 Environmental Checklist

<p>3 Natural Environment</p>	<p>(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)? (b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions? (c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem? (d) Are adequate measures taken to prevent disruption of migration routes and habitat fragmentation of wildlife and livestock? (e) Is there any possibility that the project will cause the negative impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystem due to introduction of exotic (non-native invasive) species and pests? (f) In cases where the project site is located in undeveloped areas, is there any possibility that the new development will result in extensive loss of natural environments?</p>	<p>(a) No (b) No (c) No (d) No (e) No (f) No</p>	<p>(a) The project site does not encompass primeval forests, tropical rain forests, ecologically valuable habitats. (b) The Project site encompasses the protected habitats of endangered species designated by the country's laws or international treaties and conventions. (c) There is no possibility of significant ecological impacts on the ecosystem. (d) There is no possibility of disruption of migration routes and habitat fragmentation of wildlife and livestock. (e) There is no possibility of the negative impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystem due to introduction of exotic (non-native invasive) species and pests. (f) The Project site is not located in undeveloped areas.</p>
<p>3 Natural Environment and Geology</p>	<p>(a) Is there any soft ground on the route of power transmission and distribution lines that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed? (b) Is there any possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides? (c) 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?</p>	<p>(a) No (b) No (c) No</p>	<p>(a) There is no soft ground on the route of 33kV and 11kV distribution lines. (b) There is no possibility that civil works, such as cutting and filling will cause slope failures or landslides. (c) There is no possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites.</p>
<p>(1) Resettlement</p>	<p>(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement? (b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement? (c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement? (d) Are the compensations going to be paid prior to the resettlement? (e) Are the compensation policies prepared in document?</p>	<p>(a) Yes (b) Under preparation (c) Under preparation (d) Yes (e) Under preparation</p>	<p>(a) A small scale involuntary resettlement will be caused by the Project implementation. As a result of the examination of alternative plans of the Project, the target of resettlement will be found as one derelict house and two houses. (b) NPA will explain the resettlement schedule and necessary measures before the resettlement, and complete the resettlement by the end of February 2011. (c) NPA will prepare the brief Resettlement Action Plan (RAP) because the number of target household is small. (d) Based on the related laws (Public Lands Ordinance 1961 and NPA Act 1982), and the past experience of the resettlement (the project of 33kV Sub transmission line from Kingtom to Wilverforce and Blackhall Road), NPA will plan to prepare alternative lands and necessary cost. Compensations will be provided prior to the resettlement. (e) Compensation policies will be shown in the simple RAP.</p> <p style="text-align: right;">See Attachment 3</p>

7. 環境チェックリスト・モニタリングプラン

Attachment 1 Environmental Checklist

4 Social Environment	<p>(f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?</p> <p>(g) Are agreements with the affected people obtained prior to resettlement?</p> <p>(h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?</p> <p>(i) Are any plans developed to monitor the impacts of resettlement?</p> <p>(j) Is the grievance redress mechanism established?</p>	<p>(f) Yes (g) Under preparation (h) Yes (i) Yes (j) Yes</p>	<p>(f) The simple RAP will pay particular attention to vulnerable groups or people. (g) Agreements with the affected people will be obtained prior to resettlement. (h) The organizational framework of NPA is established. Security section of NPA will be the main responsible department. (i) Monitoring plans of resettlement will be shown in the simple RAP. Also SLEPA will monitor because EIA report will include the simple RAP. (j) Security section of NPA, the main responsible department of the resettlement, will be the grievance machinery.</p>
(2) Living and Livelihood	<p>(a) Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?</p> <p>(b) Is there a possibility that diseases, including infectious diseases, such as HIV will be brought due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?</p> <p>(c) Is there any possibility that installation of structures, such as power line towers will cause a radio interference? If any significant radio interference is anticipated, are adequate measures considered?</p> <p>(d) Are the compensations for transmission wires given in accordance with the domestic law?</p>	<p>(a) Yes (b) No (c) No (d) Unrelated</p>	<p>(a) Although a part of poles will be installed in the private lands and a part of distribution lines will pass over the private lands, NPA will explain the schedule and description of the Project and agreements with the affected private land owners will be obtained prior to the Project. Also a part of distribution lines will pass over the crowded area, however, the safety clearances limit (heights and distances between the distribution line facility and the houses) which adapted in Sierra Leone by the World Bank Assisting projects. NPA will explain the schedule and description of the Project beforehand. During the construction period, temporal traffic restriction and interruption of power service will be necessary. With the discussion among related organizations, NPA will prepare the adequate plans to reduce these impacts. (b) There is no possibility that diseases. (c) There is no possibility of a radio interference. (d) There is no possibility of the compensations for distribution lines.</p>
(3) Heritage	<p>(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws?</p>	<p>(a) No</p>	<p>(a) There is no possibility to damage the local archeological, historical, cultural, and religious heritage.</p>
(4) Landscape	<p>(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?</p>	<p>(a) No</p>	<p>(a) There is no possibility to adversely affect the local landscape.</p>
(5) Ethnic Minorities and Indigenous Peoples	<p>(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples?</p> <p>(b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected?</p>	<p>(a) Unrelated (b) Unrelated</p>	<p>(a) There are no possibility of impacts on the culture and lifestyle of ethnic minorities and indigenous peoples. (b) There are no possibility of impacts on all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected.</p>

7. 環境チェックリスト・モニタリングプラン

Attachment 1 Environmental Checklist

4 Social Environment	(6) Working Conditions	<p>(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project?</p> <p>(b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?</p> <p>(c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public health) for workers etc.?</p> <p>(d) Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents?</p>	<p>(a) Yes (b) Under preparation (c) Under preparation (d) Under preparation</p>	<p>(a) Based on the Safety Rules of NPA, NPA will supervise the Contractor to follow this rule. (b) Based on the Safety Rules of NPA, NPA will examine the proper tangible safety measures with the Consultant, and supervise the Contractor to conduct it during the construction. (c) Based on the Safety Rules of NPA, NPA will examine the proper intangible safety measures with the Consultant, and supervise the Contractor to conduct it during the construction. (d) Based on the Safety Rules of NPA, NPA will examine the appropriate measures with the Consultant, and supervise the Contractor to allocate security guards not to violate safety of other individuals involved, or local residents.</p>	
	(1) Impacts during Construction	<p>(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)?</p> <p>(b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts?</p> <p>(c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts?</p>	<p>(a) Under preparation (b) No (c) Under preparation</p>	<p>(a) Regarding the concerned impacts, NPA will examine the adequate measures with the related organizations and the Consultant, and finalize it. And NPA will supervise the Contractor to conduct these measures. (b) There is no possibility that the construction activities will adversely affect the natural environment. (c) NPA will examine the adequate monitoring measures with the related organizations and the Consultant, and supervise the Contractor to conduct these measures.</p>	See Attachment 2
5 Others	(2) Monitoring	<p>(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts?</p> <p>(b) What are the items, methods and frequencies of the monitoring program?</p> <p>(c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)?</p> <p>(d) 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 authorities?</p>	<p>(a) Under preparation (b) Under preparation (c) Under preparation (d) Yes</p>	<p>(a) Regarding the concerned impacts, NPA will examine and the monitoring plan with the related organizations and the Consultant. After that, NPA will supervise the Contractor to conduct the monitoring plan appropriately. (b) NPA will examine the necessary items, methods and frequencies included in the monitoring program and prepare the appropriate monitoring plan with the Consultant. (c) NPA will be responsible to conduct the monitoring, and the monitoring framework has been already established because the monitoring is one of the routine works of NPA. (d) NPA plans to submit the monthly report as a report to the regulatory authorities.</p>	See Attachment 2
6 Note	Note on Using Environmental Checklist	<p>(a) If necessary, the impacts to transboundary or global issues should be confirmed, (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).</p>	<p>(a) Unrelated</p>	<p>(a) Any transboundary or global issues are not assumed by the Project.</p>	

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 environmental considerations are required to be made.
In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).
2) Environmental 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.

7. 環境チェックリスト・モニタリングプラン

Supplement to Attachment 1 Environmental Checklist

At the stage of Draft Final Report, the progress is confirmed as follows:

Category	Environmental Item	Main Check Items	Status	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
1 Permits and Explanation	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process?	(a) Yes	(a) During the mission of DBD in May 2011, NPA submit the documents for EIA license application to SLEAPA. (b) On 24th June, 2011, SLEPA replied by the official letter to NPA that this Project did not need, but needed to submit the Environmental and Social Management Plan (ESMP). NPA submitted ESMP to SLEPA. (c) Same as Attachment 1 Environmental Checklist (d) Same as Attachment 1 Environmental Checklist
		(b) Have EIA reports been approved by authorities of the host country's government?	(b) Yes	
		(c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied?	(c) No	
1 Permits and Explanation	(2) Explanation to the Local Stakeholders	(d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	(d) Unrelated	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist
		(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders?	(a) Under preparation	
		(b) Have the comment from the stakeholders (such as local residents) been reflected to the project design?	(b) Under preparation	
2 Pollution Control	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	(a) Yes	(a) Same as Attachment 1 Environmental Checklist
		(a) Is there any 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? If the water quality degradation is anticipated, are adequate measures considered?	(a) No	(a) Same as Attachment 1 Environmental Checklist
3 Natural Environment	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	(a) No	(a) Same as Attachment 1 Environmental Checklist
		(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)?	(a) No	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist (d) Same as Attachment 1 Environmental Checklist (e) Same as Attachment 1 Environmental Checklist (f) Same as Attachment 1 Environmental Checklist
	(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?	(b) No		
	(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?	(c) No		
	(d) Are adequate measures taken to prevent disruption of migration routes and habitat fragmentation of wildlife and livestock?	(d) No		
	(e) Is there any possibility that the project will cause the negative impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystem due to introduction of exotic (non-native invasive) species and pests? Are adequate measures for preventing such impacts considered?	(e) No		
(f) In cases where the project site is located in undeveloped areas, is there any possibility that the new development will result in extensive loss of natural environments?	(f) No			
(2) Ecosystem				

7. 環境チェックリスト・モニタリングプラン

Category	Environmental Item	Main Check Items	Status	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
3 Natural Environment	(3) Topography and Geology	(a) Is there any soft ground on the route of power transmission and distribution lines that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed?	(a) No (b) No (c) No	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist
		(b) Is there any possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides? (c) 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?		
4 Social Environment	(1) Resettlement	(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement? (b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement? (c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement? (d) Are the compensations going to be paid prior to the resettlement? (e) Are the compensation policies prepared in document? (f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples? (g) Are agreements with the affected people obtained prior to resettlement? (h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan? (i) Are any plans developed to monitor the impacts of resettlement? (j) Is the grievance redress mechanism established?	(a) Yes (b) Under preparation (c) Under preparation (d) Yes (e) Under preparation (f) Yes (g) Under preparation (h) Yes (i) Yes (j) Yes	(a) Same as Attachment 1 Environmental Checklist (b) During the preparation of the simple Resettlement Action Plan (RAP), NPA found that they need the support from Ministry of Energy and Water Resources (MEWR).. Therefore, NPA issued the letter to MEWR on the request of cooperation on 18th July, 2011. By the commencement of the Project, NPA will complete the resettlement with MEWR. (c) NPA is preparing the simple RAP with MEWR. (d) Same as Attachment 1 Environmental Checklist (e) NPA is preparing the simple RAP with MEWR. (f) Same as Attachment 1 Environmental Checklist (g) NPA is preparing the simple RAP with MEWR. (h) Same as Attachment 1 Environmental Checklist (i) Same as Attachment 1 Environmental Checklist (j) Same as Attachment 1 Environmental Checklist
		(a) Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary? (b) Is there a possibility that diseases, including infectious diseases, such as HIV will be brought due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary? (c) Is there any possibility that installation of structures, such as power line towers will cause a radio interference? If any significant radio interference is anticipated, are adequate measures considered? (d) Are the compensations for transmission wires given in accordance with the domestic law?	(a) Yes (b) No (c) No (d) Unrelated	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist (d) Same as Attachment 1 Environmental Checklist

7. 環境チェックリスト・モニタリングプラン

Category	Environmental Item	Main Check Items	Status	Confirmation of Environmental Considerations (Reasons, Mitigation Measures)
4 Social Environment	(3) Heritage	(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws?	(a) No	(a) Same as Attachment 1 Environmental Checklist
	(4) Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?	(a) No	(a) Same as Attachment 1 Environmental Checklist
	(5) Ethnic Minorities and Indigenous Peoples	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples? (b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected?	(a) Unrelated (b) Unrelated	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist
	(6) Working Conditions	(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project? (b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials? (c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public health) for workers etc.? (d) Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents?	(a) Yes (b) Under preparation (c) Under preparation (d) Under preparation	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist (d) Same as Attachment 1 Environmental Checklist
	(1) Impacts during Construction	(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)? (b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts? (c) If construction activities adversely affect the social environment, are	(a) Under preparation (b) No (c) Under preparation	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist
5 Others	(2) Monitoring	(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts? (b) What are the items, methods and frequencies of the monitoring program? (c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? (d) 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 authorities?	(a) Under preparation (b) Under preparation (c) Under preparation (d) Yes	(a) Same as Attachment 1 Environmental Checklist (b) Same as Attachment 1 Environmental Checklist (c) Same as Attachment 1 Environmental Checklist (d) Same as Attachment 1 Environmental Checklist
6 Note	Note on Using Environmental Checklist	(a) If necessary, the impacts to transboundary or global issues should be confirmed, (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).	(a) Unrelated	(a) Same as Attachment 1 Environmental Checklist

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 environmental considerations are required to be made.

In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).

2) Environmental 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.

Attachment 2 Monitoring Plan

1) Planning and Construction Stage

Environmental and Social Impacts	Mitigation Measures		Monitoring Method	Monitoring Framework
	Planning Stage	Construction Stage		
1 Involuntary Resettlement	To minimize the resettlement, the site of Goderich Substation will be the Governmental site and the 33kV and 11kV distribution lines will be installed along the existing roads. For 33kV distribution line, high poles, towers, cables and other equipment will be used. To avoid unnecessary involuntary resettlement, ROW or the safety clearances limit (heights and distances between the distribution line facility and the houses, which has been adapted in Sierra Leone by the World Bank assisting projects) will be secured.	Notification on the construction schedule for affected people Preparation of the appropriate construction schedule The contractor will follow the appropriate construction procedures under the supervision of NPA	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
2 Local Economy such as Employment and Livelihood, etc	To avoid unnecessary involuntary resettlement of small shops, ROW or the safety clearances limit will be secured.	Notification on the construction schedule for affected people Preparation of the appropriate construction schedule The contractor will follow the appropriate construction procedures under the supervision of NPA	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
5 Existing Social Infrastructures and Services	To minimize the impact on residents, the appropriate plans for temporal traffic restriction and interruption of power service will be prepared based on the discussion among related organizations.	Notification on the construction schedule for affected people Preparation of the appropriate construction schedule The contractor will follow the appropriate construction procedures under the supervision of NPA	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
13 Topography and Geographical Features	The appropriate structure design will be prepared based on the results of topographic and boring surveys.	The contractor will follow the appropriate construction procedures under the supervision of NPA	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant

7. 環境チェックリスト・モニタリングプラン

Attachment 2 Monitoring Plan

18	Flora, Fauna and Biodiversity	To avoid interference to Flora, Fauna and Biodiversity, the Project site does not intrude the core protection areas of "Western Area Peninsula Forest Reserve (WAPF)". The distribution facility plan will include the measures to avoid collision of birds.	Preparation of the appropriate construction schedule The contractor will follow the appropriate construction procedures under the supervision of NPA	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
22	Air Pollution	The appropriate construction and work schedules will be prepared to minimize the exhaust gas from the construction vehicles.	Periodical maintenance and inspection of construction equipment and vehicles The contractor will follow the appropriate construction procedures under the supervision of NPA.	Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
23	Water Pollution	The construction plan will include the appropriate drainage treatment facility if necessary.	The contractor will take the appropriate measure of discharging water under the supervision of NPA.	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant	NPA, Contractor, Consultant
24	Soil Contamination	To avoid oil leaks, the facility plan will include the installation of oil retaining bands, oil separator or oil pits around transformers. And the earth surface will be covered by concrete to avoid penetration of oil to the ground.	The contractor will follow the appropriate construction procedures under the supervision of NPA.	Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
25	Waste	NPA will prepare an appropriate disposal site for construction wastes. NPA will prepare a properly controlled storage for the old transformers as a temporary solution because there is no regulation on PCB disposal or treatment facilities in Sierra Leone at present.	Generated wastes will be transported with prevention of scattering and dropping to the appropriate disposal place. Generated wastes including PCB will be transported with prevention of scattering and dropping to the appropriate storage. During the construction, the contractor will follow the appropriate construction procedures to prevent scattering wastes under the supervision of NPA.	Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant

Attachment 2 Monitoring Plan

26	Noise and Vibration	The construction plan will include the measures to minimize noise and vibration. The construction plan will be examined to use environmental friendly equipment, facility and vehicles.	Notification on the construction schedule for affected people Preparation of the appropriate construction schedule Periodical maintenance and inspection of construction equipment and vehicles The contractor will follow the appropriate construction procedures and the traffic control under the supervision of NPA.	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant
30	Accidents	In the site, safety of surrounding residents will be secured and accident should be prevented. To avoid electrocution or fires caused by distribution facilities, minimal safety clearance between the line and structure will be secured. To enhance safety factors of distribution line will be necessary. The route of construction vehicles will be examined to minimize the possibility of accidents. The construction plan will be prepared with the consideration of the traffic jam.	Based on the Safety Rules of NPA, NPA will supervise the Contractor to follow this rule. Preparation of the appropriate construction schedule Periodical maintenance and inspection of construction equipment and vehicles The contractor will follow the appropriate construction procedures and the traffic control under the supervision of NPA.	Discussion/opinion exchange with affected people Periodical discussion and check among NPA, the Contractor and the Consultant Taking improvement measures if necessary.	NPA, Contractor, Consultant

2) Service stage

Item	Description	Standards	Monitoring Method	Monitoring System
Natural Environment	Cut branches or remove obstacles on/under the facility	Follow existing inspection method of NPA	Follow existing inspection method of NPA	Security Section of NPA, SLEPA
Social Environment	Confirm restoration of livelihoods after the resettlement Avoid intrusion of houses and small shops near the facility	Follow the brief RAP Keep the appropriate distance based on ROW or the safety clearances limit	Follow the brief RAP Follow existing inspection method of NPA	Security Section of NPA
Periodical inspection of each facility and distribution line		Follow existing inspection method of NPA	Follow existing inspection method of NPA	Security Section of NPA, SLEPA

Attachment 3

Brief Resettlement Action Plan
for
the Project for the Urgent Improvement
of Power Distribution System in Freetown in the Republic of Sierra Leone

Table of Contents (plan)

1. Introduction
2. Description of the Project
3. Potential Impact
4. Objective of Resettlement Plan
5. Legal and Institutional Framework
6. Valuation Method
7. Resettlement Method
8. Community Participation
9. Grievance Procedures
10. Organizational Responsibilities
11. Implementation Schedule
12. Monitoring

資料－ 8 変電所用地取得容認レター
(SLBC→MEWR)



SIERRA LEONE BROADCASTING CORPORATION. NEW ENGLAND VILLE, FREETOWN.

23rd December 2010

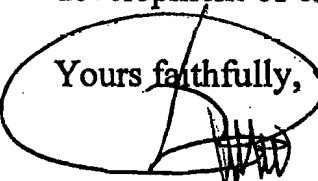
The Permanent Secretary
Ministry of Energy and Water Resources
Electricity House
Siaka Stevens Street
Freetown.

**REQUEST FOR THE RELEASE OF A PARCEL OF LAND LOCATED AT THE SLBC
SITE IN GODERICH FOR THE CONSTRUCTION OF A 33/11KV DISTRIBUTION
SUBSTATION.**

With reference to the above, I write to inform you that the Board of Trustees of the SLBC has given approval for the SLBC to release the parcel of land located at the SLBC site in Goderich that has been identified by NPA for the construction of a 33/11KV distribution Substation.

As Partners in development, we consider your plan a good venture for the development of energy in Sierra Leone.

Yours faithfully,


E. Gbanabom Hallowell
Director General

cc: The Chairman, Board of Trustees, SLBC
The Minister of Energy & Water Resources
The Permanent Secretary, Ministry of Lands, Country Planning & the
Environment
The General Manager, NPA
The Deputy General Manager, NPA

資料－9 **EIA** ライセンス取得手順通
知レター (**EPA**→**MEWR**)



GOVERNMENT OF SIERRA LEONE
Environment Protection Agency
3rd Floor Youyi Building
Brookfields
Freetown

9th July, 2011

The Permanent Secretary
Ministry of Energy and Water Resources
4th Floor, Electricity House
36 Siaka Stevens Street
Freetown

Dear Sir,

RE: URGENT IMPROVEMENT OF THE 33/11KV DISTRIBUTION NETWORK IN THE WESTERN AREA (FREETOWN) – ENVIRONMENTAL IMPACT ASSESSMENT LICENSE APPLICATION

I write with reference to your application for Environmental Impact Assessment (EIA) License to enable you to embark on activities of the above project. Due to the urgency of your application, the Agency authorizes you to proceed with activities to obtain the necessary finances whilst you complete the EIA requirements.

Yours Sincerely


Mrs. Hajdijatou Jallow
Executive Chairman



OFFICE OF THE PRESIDENT

**CHECKLIST FOR THE ISSUANCE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA)
LICENCE FOR PROJECTS UNDER THE FIRST SCHEDULE OF THE ENVIRONMENT
PROTECTION AGENCY ACT, 2010**

The developer/proponent is required to undertake the following stages.

Stage One – Registration

1. Proponent/Developer is required to register the project proposal through an application process. The letter is addressed to the Executive Chairperson and copied to the Director for the attention of the EIA Focal Point. This is to expedite the processing of the EIA application.
2. Application and screening forms are issued to the proponent/developer after a payment of two hundred thousand Leones at an account designated for EIA's application fees.
3. The proponent is required to return duly completed forms to the Environment Protection Agency Sierra Leone (EPA-SL).

Stage Two – Screening

1. Project proposal and screening forms are screened to determine whether or not the development proposal should be subject to an EIA and, if so, the level of detail required.
2. This stage of the EIA process is done within two weeks.

Stage Three – Scoping

1. After the project has been classified and a determination is made that the activity requires an environmental impact assessment license the proponent will be required to submit a scoping report on the project.
2. The Agency and proponent will agree on the (Terms of Reference) ToRs before the commencement of the impact studies.
3. Upon receipt of the scoping report, the process for the determination of the ToRs shall be within two weeks.
4. Staff of the Agency will visit the location of the project before approval of the ToRs.

Stage Four – Environmental, Social and Health Impact Studies and Preparation of the Report

1. Upon approval of the ToRs the proponent undertakes the impact studies.
2. The ESHIA report must document clearly and impartially impacts of the proposal, the proposed measures for mitigation, the significance of effects on the environment, and the concerns of the interested public and the communities affected by the proposal. In this regard, management plans including the environmental management plan (EMP), community development and action plan (CDAP), resettlement action plans etc. must be clearly articulated in the document.
3. Upon completion of the impact studies, the proponent should submit eighteen hard and soft copies of the ESHIA report to the Agency for circulation to Board members and professional bodies.

Stage Five – Review of the ESHIA Report

1. The Agency will determine whether the ESHIA report meets the terms of reference provides a satisfactory assessment of the proposal(s) and contains the information required for decision making.
2. The report will be gazetted and circulated to professional organizations for comments by the Agency. The proponent will have to disclose the ESHIA report through publication of dates for disclosure on newspapers, and hold two or more public hearing meetings for public participation in the decision-making process. The placement of the ESHIA report in specific places will enable the affected or interested persons to make comments on the impact studies and submit to the Agency for decision making. Staff of the Agency will also visit the site or operational areas of the project to ascertain the components and content of the ESHIA Report in the review stage.
3. Depending on the location of the project the proponent will be required to make announcements over the media in the local languages

Stage Six – Decision Making

1. This is the stage where the ESHIA report is approved or rejected.

9. EIAライセンス取得手順通知レター (EPA MEWR)

2. The Proponent should prepare a report on the proceedings of the public disclosure meetings for submission to EPA-SL.
3. The Board of the EPA is vested with the power to approve or reject an application for an EIA. If an application for an EIA license is approved, it will be subject to the terms and conditions, provided by the Board and is issued for twelve months and is subject to renewal.
4. When an application has been rejected by the EPA board, the proponent has a right to seek legal redress.

Stage Seven – Compliance and Enforcement.

This is the implementation stage, environmental monitoring and auditing of the project activities is undertaken to ensure that the terms and conditions of approval of the Environment Impact Assessment license are met in accordance with the Environment Protection Agency Act, 2008.as amended in 2010

Note: EPA-SL should be involved through all these stages for guidance and compliance with the provisions of the EPA Act, 2008.

資料－10 **EIA** ライセンス発行を承認するレター (**EPA**→**MEWR**)



GOVERNMENT OF SIERRA LEONE

Environment Protection Agency Sierra Leone

Office of the President

3rd Floor, Youyi Building, Brookfields

29th August, 2011

The Permanent Secretary,

Ministry of Energy and Water Resources

Electricity House

Siaka Stevens Street

Freetown.

Dear Sir,

**PAYMENT FOR ISSUANCE OF ENVIRONMENTAL IMPACT ASSESSMENT LICENCE/PERMIT FOR
THE URGENT IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN FREETOWN.**

I write to refer to the above subject matter and to inform you that the Environment Protection Agency-Sierra Leone (EPA-SL) has carefully reviewed the environment, social & health impact assessment for the preparatory survey report for the urgent improvement of power distribution system in Freetown.

I have also been directed to inform you that the EPA-SL Board, at a meeting held on Thursday 25th August, 2011 has approved the issuing of a license from the EPA-SL for the above named project. In this regard, you are required to pay through the swift the sum of US\$3575.00 (three thousand five hundred and seventy five United States Dollars) for the issuance of the EIA License/Permit and US\$ 464.75 (four hundred and sixty four United States Dollars and seventy five cents) as Monitoring Fee in the following bank accounts.

NAME OF BANK	ADDRESS	ACCOUNT NUMBER
Licensing		
Eco Bank	Lightfoot Boston Street	5001544010217

10. EIAライセンス発行を承認するレター (EPA MEWR)

Monitoring Fees

Eco Bank

Lightfoot Boston Street

5001544010225

We look forward to receiving your usual cooperation.



V.H.O.Sawyerr

Deputy Director, EPA –SL

For: Haddijatou Jallow (Mrs.)

Executive Chairperson

Cc:

Minister of Energy and Power

The General Manager, National Power Authority

Leader, Preparatory Survey Team

Japan International cooperation Agency

EPA-SL Board members

Director –EPA-SL

The EPA-SL EIA Committee Members