

資料一 1 調査団員・氏名

添付資料

1. 調査団員・氏名

(1) 第1次現地調査

氏名	担当業務	現職
前原 充宏	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 課長
滝本 哲也	計画管理	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 主任調査役
不二葦 教治	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)
玉井 昌幸	送配電設備計画	八千代エンジニアリング (株)
高嶋 繁生	環境社会配慮	八千代エンジニアリング (株)
赤塚 大輔	業務調整	八千代エンジニアリング (株)

(2) 第 2 次現地調査

氏 名	担当業務	現 職
滝本 哲也	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 主任調査役
不二葦 教治	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)
玉井 昌幸	送配電設備計画	八千代エンジニアリング (株)
今井 進	土木・基礎構造/施設計画/自然条 件調査	八千代エンジニアリング (株)
高嶋 繁生	環境社会配慮	八千代エンジニアリング (株)
阿部 真	調達・施工計画/積算	八千代エンジニアリング (株)
赤塚 大輔	業務調整	八千代エンジニアリング (株)

(3) 概略設計概要説明

氏名	担当業務	所属
長谷川 敏久	総括	独立行政法人 国際協力機構 タンザニア事務所 次長
滝本 哲也	計画管理	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 主任調査役
不二葦 教治	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)
高嶋 繁生	環境社会配慮	八千代エンジニアリング (株)
赤塚 大輔	業務調整	八千代エンジニアリング (株)

資料－2 調査行程

2. 調査行程
(1) 第1次現地調査

No.	月日	曜日	調査内容					宿泊地		
			官団員		コンサルタント団員					
			前原課長(総括)	滝本主任調査役(計画管理)	Team 1		Team 2			
					不二峯	赤塚	玉井		高嶋	
1	4月13日	Tue		①移動(成田→ドバイ)					機中泊(滝本)	
2	4月14日	Wed		①移動(ドバイ10:50→ダレスサラム15:20 by EK725)			①移動(成田11:00→バンコク15:35 by JL717)		ダレスサラム(滝本) バンコク(玉井、高嶋)	
3	4月15日	Thu		①技術打ち合わせ			①移動(バンコク02:40→ドバイ05:45 by EK419) ②移動(ドバイ10:50→ダレスサラム15:20 by EK725)		ダレスサラム(滝本、玉井、高嶋)	
4	4月16日	Fri		①表敬訪問及びインセンションレポートの提出・説明: JICA(事)、TANESCO、エネルギー鉱物資源省			①表敬訪問及びインセンションレポートの提出・説明: JICA(事)、TANESCO、エネルギー鉱物資源省		ダレスサラム(滝本、玉井、高嶋)	
5	4月17日	Sat	①移動(成田→ドバイ)	①移動(ダレスサラム7:20→キマンジャロ8:40 by PW420)	①移動(成田11:00→バンコク15:35 by JL717)		①移動(ダレスサラム16:45→キマンジャロ18:05 by PW432) ②収集資料整理及び団内協議		キマンジャロ(滝本、玉井、高嶋) ドバイ(前原) バンコク(不二峯、赤塚)	
6	4月18日	Sun	①移動(ドバイ10:50→ダレスサラム15:20 by EK725) ②移動(ダレスサラム18:30→キマンジャロ19:50 by PW725)	①収集資料整理及び団内協議	①移動(バンコク02:40→ドバイ05:45 by EK419) ②移動(ドバイ10:50→ダレスサラム15:20 by EK725) ③移動(ダレスサラム18:30→キマンジャロ19:50 by PW725)		①収集資料整理及び団内協議		キマンジャロ	
7	4月19日	Mon	①表敬訪問及びインセンションレポートの提出・説明: TANESCOキマンジャロ支店、②要請内容の確認、③サイト状況調査(Kiyungi変電所→YMCA変電所→KCMC変電所→Gomberi変電所→Trade School変電所→Machame変電所→Lawati変電所)							キマンジャロ
8	4月20日	Tue	①サイト状況調査(66kV送電線ルート→Makuyuni変電所)							キマンジャロ
9	4月21日	Wed	①移動(キマンジャロ10:30→ダレスサラム12:35 by PW420) ②ミーティング(エネルギー鉱物資源省、TANESCO)			①サイト状況調査(66kV送電線ルート→Same変電所)			キマンジャロ(玉井、高嶋、赤塚) ダレスサラム(前原、滝本、不二峯)	
10	4月22日	Thu	①ミーティング(エネルギー鉱物資源省、TANESCO)			①サイト状況調査(33kV送電線ルート(Makuyuni変電所→Mkuu Rombo変電所))			キマンジャロ(玉井、高嶋、赤塚) ダレスサラム(前原、滝本、不二峯)	
11	4月23日	Fri	①ミーティング(エネルギー鉱物資源省、TANESCO) ②報告: JICA(事)、日本大使館			①プロジェクト裨益効果の確認(砂糖工場、KCMC病院、Wild Life College)	①環境社会配慮調査		キマンジャロ(玉井、高嶋、赤塚) ダレスサラム(前原、滝本、不二峯)	
12	4月24日	Sat	①移動(ダレスサラム16:50→ドバイ23:20 by EK726)	①移動(ダレスサラム7:20→キマンジャロ8:40 by PW420) ②団内協議		①サイト状況調査(33kV送電線ルート(Makuyuni変電所→Mkuu Rombo変電所)) ②団内協議			キマンジャロ 機中泊(前原、滝本)	
13	4月25日	Sun	①移動(ドバイ→成田)	①収集資料整理及び団内協議 ②現地調査結果概要(案)作成					キマンジャロ	
14	4月26日	Mon		①サイト状況調査(Same変電所) ②現地調査結果概要(案)作成			①移動(キマンジャロ10:30→ダレスサラム12:35 by PW420) ②現地調査結果概要(案)作成		キマンジャロ ダレスサラム(高嶋)	
15	4月27日	Tue		①電力負荷の現状調査と電力需要予測 ②YMCA変電所の用地確認	①プロジェクト裨益効果の確認(結核病院、花卉栽培農家)	①要請内容の技術評価 ②YMCA変電所の用地確認	①環境社会配慮調査		キマンジャロ ダレスサラム(高嶋)	
16	4月28日	Wed		①サイト状況調査(33kV送電線ルート(Trade School変電所→KCMC変電所→Gomberi変電所))			①環境社会配慮調査		キマンジャロ ダレスサラム(高嶋)	
17	4月29日	Thu		①サイト状況調査(33kV送電線ルート(Makuyuni変電所→Mkuu Rombo変電所)、YMCA変電所) ②電力負荷の現状調査と電力需要予測	①プロジェクト裨益効果の確認(Mkuu Rombo地区の製材工場)	①サイト状況調査(33kV送電線ルート(Makuyuni変電所→Mkuu Rombo変電所)、YMCA変電所) ②要請内容の技術評価	①環境社会配慮調査		キマンジャロ ダレスサラム(高嶋)	
18	4月30日	Fri		①要請内容の暫定評価結果、国内検討の前提条件、次回調査までの宿題事項等の確認(TANESCOキマンジャロ事務所)	①プロジェクト裨益効果の確認(コーヒー工場、花卉栽培農家)	①要請内容の暫定評価結果、国内検討の前提条件、次回調査までの宿題事項等の確認(TANESCOキマンジャロ事務所)	①環境社会配慮調査		キマンジャロ ダレスサラム(高嶋)	
19	5月1日	Sat		①移動(キマンジャロ10:30→ダレスサラム12:35 by PW420) ②収集資料整理及び団内協議、③現地調査結果概要(案)作成			①収集資料整理及び団内協議 ②現地調査結果概要(案)作成		ダレスサラム	
20	5月2日	Sun		①収集資料整理及び団内協議、②現地調査結果概要(案)作成			①収集資料整理及び団内協議、②現地調査結果概要(案)作成 ③移動(ダレスサラム16:50→ドバイ23:20 by EK726)		ダレスサラム ドバイ(玉井、高嶋)	
21	5月3日	Mon		①他ドナー支援状況調査(EDCF)			①移動(ドバイ03:15→バンコク12:25 by EK384) ②移動(バンコク23:00→成田07:10+1 by JL718)		ダレスサラム	
22	5月4日	Tue		①他ドナー支援状況調査(世銀)、②表敬及び報告(JICA(事)、TANESCO)			①成田着(07:10)		ダレスサラム	
23	5月5日	Wed		①移動(ダレスサラム16:50→ドバイ23:20 by EK726)					ドバイ	
24	5月6日	Thu		①移動(ドバイ03:15→バンコク12:25 by EK384) ②移動(バンコク23:00→成田07:10+1 by JL718)					機中泊	
25	5月7日	Fri		①成田着(07:10)						

[備考]: JICA: Japan International Cooperation Agency, TANESCO: タンザニア電力公社(Tanzania Electric Supply Company), PW: Precision Air

No.	月日	曜日	調査内容						宿泊地			
			官団員		コンサルタント団員							
			滝本主任調査役(総括)		Team 1 不二重	Team 2 今井 赤塚	Team 3 高嶋 玉井 阿部					
1	6月6日	Sun		①移動(成田 20:50 → ドーハ 05:15+1 by QR803)				①移動(成田 20:50 → ドーハ 05:15+1 by QR803)	機中泊			
2	6月7日	Mon		①移動(ドーハ 7:45→ダレスターム 13:25 by QR544)				①移動(ドーハ 7:45→ダレスターム 13:25 by QR544) ②移動(ダレスターム 16:45→キョンギ 18:05 by PW432)	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)			
3	6月8日	Tue		①表敬訪問及び国内解析結果の説明(JICA(事)、TANESCO本社) ②現地工事会社施工能力調査 ③資材・建機・労務単価見積徴収				①表敬訪問及び国内解析結果の説明(JICA(事)、TANESCO本社) ②環境影響評価手続き連携確認	①表敬訪問及び国内解析結果の説明(TANESCOキョンギ支店) ②Kiyungi変電所サイト調査	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)		
4	6月9日	Wed		①現地再委託業者(候補)との打合せ ②現地工事会社施工能力調査 ③資材・建機・労務単価見積徴収				①環境関連法規、基準、規制調査	①66kV送電線ルート詳細調査(1)(Kiyungi S/S 周辺、水田)	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)		
5	6月10日	Thu		①電力開業計画、全国送電網拡張計画調査 ②TEDAPプロジェクトのスケジュール、設計内容確認(TANESCO、TEDAPコンサルト)				①現地再委託業者(候補)との打合せ ②現地再委託業者の選定及び契約交渉	①キョンギ周辺における鉄道路線拡張計画、建築制限の調査	①66kV送電線ルート詳細調査(2)(Makuyuni S/S 周辺)	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)	
6	6月11日	Fri		①TANESCOの組織・要員・財務状況調査 ②他ドナーによる送電プロジェクトのコスト調査 ③現地再委託契約締結				①現地工事会社施工能力調査 ②資材・建機・労務単価見積徴収 ③現地再委託契約締結	①道路拡幅保全地の基準調査 ②変電所、送電線建設予定地の土地登記情報収集	①66kV送電線ルート詳細調査(3)湿地帯踏査 ②YMCA変電所サイト調査	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)	
7	6月12日	Sat	移動(成田 → ドーハ)	①団内協議 ②移動(ダレスターム16:45→キョンギ18:05 by PW432)					①Kiyungi変電所サイト調査	ダレスターム(不二重、今井、赤塚、高嶋) キョンギ(玉井、阿部)		
8	6月13日	Sun		①収集資料整理 ②団内協議				①収集資料整理及び団内協議		ダレスターム(滝本、不二重) キョンギ(玉井、阿部、今井、赤塚、高嶋)		
9	6月14日	Mon	表敬訪問及び国内解析結果の説明(JICA(事)、エネルギー館物資資源省、TANESCO)	①技術協議(TANESCOキョンギ支店) ②Trade School S/S拡張サイト調査 ③KCMC変電所建設サイト調査				①技術協議(TANESCOキョンギ支店) ②Trade School S/S拡張サイト調査 ③KCMC変電所建設サイト調査 ④33kV配電線ルート調査(Trade School→KCMC S/S間)及び対象地の地図収集(Moshi Municipal Office)	①技術協議(TANESCOキョンギ支店) ②Trade School S/S拡張サイト調査 ③KCMC変電所建設サイト調査 ④33kV配電線ルート調査(Trade School→KCMC S/S間)及び対象地の地図収集(Moshi Municipal Office)	①技術協議(TANESCOキョンギ支店) ②Trade School S/S拡張サイト調査 ③KCMC変電所建設サイト調査 ④33kV配電線ルート調査(Trade School→KCMC S/S間)及び対象地の地図収集(Moshi Municipal Office)	①技術協議(TANESCOキョンギ支店) ②Trade School S/S拡張サイト調査 ③KCMC変電所建設サイト調査 ④33kV配電線ルート調査(Trade School→KCMC S/S間)及び対象地の地図収集(Moshi Municipal Office)	ダレスターム(滝本、不二重) キョンギ(玉井、阿部、今井、赤塚、高嶋)
10	6月15日	Tue	①ミニツ協議、署名(エネルギー館物資資源省、TANESCO) ②報告(JICA(事))	①サイト調査(Kiyungi S/S→66kV送電線ルート→Makuyuni S/S→YMCA S/S→Machame S/S→Lawati S/S)				①33kV配電線ルート(Trade School→KCMC S/S間)環境社会配慮調査	①Kiyungi変電所サイト調査 ②33kV配電線ルート調査(Trade School→KCMC S/S間)	①サイト調査(Kiyungi→66kV送電線ルート→Makuyuni変電所→YMCA変電所→Machame変電所→Lawati変電所)	ダレスターム(滝本、不二重) キョンギ(玉井、阿部、今井、赤塚、高嶋)	
11	6月16日	Wed	①現地市場調査(工事資材、機材)(不二重) ②現地工事会社施工能力調査(不二重)	①現地再委託調査立会い及びサイト状況調査(Kiyungi S/S→66kV送電線ルート→Makuyuni S/S→YMCA S/S→KCMC S/S→Trade School S/S→Machame S/S→Lawati S/S)				①66kV送電線ルート環境社会配慮調査	①Machame変電所、Lawati変電所サイト調査	ダレスターム(滝本、不二重) キョンギ(玉井、阿部、今井、赤塚、高嶋)		
12	6月17日	Thu	①移動(ダレスターム 16:50 → ドーハ 23:20 by BK726) ②移動(ダレスターム16:00→キョンギ17:20 by PW432)	①現地再委託調査立会い及びサイト状況調査(66kV送電線ルート)				①送電線の離隔距離確認(Moshi District Council)		キョンギ		
13	6月18日	Fri	①署名済みミニツの説明(TANESCOキョンギ支店) ②送電線の離隔距離確認(Moshi Municipal Council) ③33kV配電線ルート調査(Trade School→KCMC S/S間)	①署名済みミニツの説明(TANESCOキョンギ支店) ②現地再委託調査立会い及びサイト状況調査(66kV送電線ルート) ③33kV配電線ルート調査(Trade School→KCMC S/S間)				①署名済みミニツの説明(TANESCOキョンギ支店) ②現地再委託調査立会い及びサイト状況調査(66kV送電線ルート) ③33kV配電線ルート調査(Trade School→KCMC S/S間)	①署名済みミニツの説明(TANESCOキョンギ支店) ②Kiyungi変電所サイト調査 ③33kV配電線ルート調査(Trade School→KCMC S/S間)	①署名済みミニツの説明(TANESCOキョンギ支店) ②Kiyungi変電所サイト調査 ③33kV配電線ルート調査(Trade School→KCMC S/S間)	キョンギ	
14	6月19日	Sat		①フィードレポート作成 ②現地調査結果概要作成 ③補足調査						キョンギ		
15	6月20日	Sun		①フィードレポート作成 ②現地調査結果概要作成						キョンギ		
16	6月21日	Mon		①フィードレポート作成 ②現地調査結果概要作成 ③補足調査				①フィードレポート作成 ②現地調査結果概要作成 ③現地再委託調査立会い及びサイト状況調査(66kV送電線ルート)	①フィードレポート作成 ②現地調査結果概要作成 ③Kiyungi変電所、YMCA変電所サイト調査	①フィードレポート作成 ②現地調査結果概要作成 ③現地市場調査(工事資材、機材) ④現地工事会社施工能力調査	キョンギ	
17	6月22日	Tue		①フィードレポート作成 ②現地調査結果概要作成 ③66kV送電線ルート詳細調査(Kiyungi S/S 付近) ④Trade School S/S拡張サイト調査				①フィードレポート作成 ②現地調査結果概要作成 ③KCMC変電所建設サイト調査	①フィードレポート作成 ②現地調査結果概要作成 ③66kV送電線ルート環境社会配慮調査	①フィードレポート作成 ②現地調査結果概要作成 ③Kiyungi変電所、YMCA変電所サイト調査 ④Trade School S/S拡張サイト調査	①フィードレポート作成 ②現地調査結果概要作成 ③現地市場調査(工事資材、機材) ④現地工事会社施工能力調査	キョンギ
18	6月23日	Wed		①フィードレポート作成 ②現地調査結果概要作成						キョンギ		
19	6月24日	Thu		①フィードレポート(案)提出、説明、協議(TANESCOキョンギ支店) ②現地調査結果概要作成						キョンギ		
20	6月25日	Fri		①フィードレポート協議、承認取得(TANESCOキョンギ支店) ②現地調査結果概要作成						キョンギ		
21	6月26日	Sat		①移動(キョンギ10:30→ダレスターム12:35 by PW420) ②現地調査結果概要作成						ダレスターム		
22	6月27日	Sun		①現地調査結果概要作成						ダレスターム		
23	6月28日	Mon		①フィードレポート協議(TANESCO本社) ②現地調査結果概要作成						ダレスターム		
24	6月29日	Tue		①フィードレポート協議、承認取得(TANESCO本社) ②現地調査結果概要作成						ダレスターム		
25	6月30日	Wed		①現地調査結果概要作成 ②補足調査						ダレスターム		
26	7月1日	Thu		①表敬及び報告(JICA(事)、日本大使館)						ダレスターム		
27	7月2日	Fri		①移動(ダレスターム 14:25 → ドーハ 20:00 by QR545)						機中泊		
28	7月3日	Sat		①移動(ドーハ 01:05 → 成田 19:30 by QR802)								

【備考】
JICA: Japan International Cooperation Agency
TANESCO: タンザニア電力会社(Tanzania Electric Supply Company)
S/S: Substation, 変電所

No.	月日	曜日	調査内容			宿泊地	
			官団員	コンサルタント団員			
			長谷川次長(総括、現地から参团) 滝本主任調査役(計画管理)	不二葦	高嶋		赤塚
1	11月20日	Sat		①移動 {成田 20:50 → ドーハ 05:10+1 by QR803}			機中泊
2	11月21日	Sun		①移動 {ドーハ 7:20→ダルエスサラーム 13:15 by QR544}			ダルエスサラーム
3	11月22日	Mon		①表敬訪問及び概要書説明: JICA(事)、日本大使館、エネルギー資源省、TANESCO	①表敬訪問及び概要書説明: JICA(事)、日本大使館、TANESCO ②環境社会配慮に係る協議 (TANESCO)	①表敬訪問及び概要書説明: JICA(事)、日本大使館、エネルギー資源省、TANESCO	ダルエスサラーム
4	11月23日	Tue	①移動 {成田 20:50 → ドーハ 05:10+1 by QR803}	①概要書説明 (TANESCO) ②補足調査	①同左 ②環境社会配慮調査 ③移動 {ダルエスサラーム 18:00→キマンジャロ 19:20 by PW434}		ダルエスサラーム(不二葦) キマンジャロ(高嶋、赤塚) 機中泊(官団員)
5	11月24日	Wed	①移動 {ドーハ 7:20→ダルエスサラーム 13:15 by QR544} ②ミッツ協議準備 ③タンザニア技プロ打ち合わせ	①概要書説明 (TANESCO) ②補足調査	①概要書説明 (TANESCOキマンジャロ支店) ②環境社会配慮調査 ③サイト状況調査	①概要書説明 (TANESCOキマンジャロ支店) ②サイト状況調査	ダルエスサラーム (官団員、不二葦) キマンジャロ(高嶋、赤塚)
6	11月25日	Thu	①ミッツ協議(エネルギー資源省、TANESCO) ②補足調査		①環境社会配慮調査 ②サイト状況調査	①サイト状況調査 ②プロジェクトの裨益効果に係る補足調査	ダルエスサラーム (官団員、不二葦) キマンジャロ(高嶋、赤塚)
7	11月26日	Fri	①ミッツ協議(エネルギー資源省、TANESCO) ②補足調査	①ミッツ協議(エネルギー資源省、TANESCO) ②移動 {ダルエスサラーム 18:00→キマンジャロ 19:20 by PW434} ③団内協議	①環境社会配慮調査 ②サイト状況調査 ③団内協議	①プロジェクトの裨益効果に係る補足調査 ②団内協議	ダルエスサラーム(官団員) キマンジャロ (不二葦、高嶋、赤塚)
8	11月27日	Sat	①移動 {ダルエスサラーム 9:20→ サンジハル 9:50 by PW730} ②サンジハル無償案件フォローアップ	①サイト状況調査			サンジハル(官団員) キマンジャロ (不二葦、高嶋、赤塚)
9	11月28日	Sun	①サンジハル無償案件フォローアップ ②移動 {サンジハル 17:00→ダルエスサラーム 17:30 by PW431} ③団内協議	①補足調査 ②移動 {キマンジャロ10:30→ダルエスサラーム12:35 by PW420} ③団内協議			ダルエスサラーム
10	11月29日	Mon	①ミッツ協議・署名(エネルギー資源省、TANESCO)			①同左 ②環境社会配慮調査	ダルエスサラーム
11	11月30日	Tue	①報告(JICA(事)、日本大使館) ②移動 {ダルエスサラーム 14:25 → ドーハ 20:00 by QR545}				機中泊
12	12月1日	Wed	①移動 {ドーハ 01:10 → 成田 19:05 by QR802}				

【備考】
 JICA: Japan International Cooperation Agency
 TANESCO: タンザニア電力公社(Tanzania Electric Supply Company)

資料－3 関係者（面会者）リスト

3. 相手国関係者リスト

<u>所属及び氏名</u>	<u>職位</u>
エネルギー鉱物資源省	
Ministry of Energy and Minerals (MEM)	
Mr. Bashir J. Mrindoko	Commissioner for Energy and Petroleum Affairs
Mr. Prosper Victus	Assistant Commissioner of Petroleum and gas
Mr. Juma Mkobya	Acting Assistant Commissioner of Electricity
Mr. Salum M. Inegeja	Energy Engineer
Mr. John F. Kitonga	Energy Engineer
Mr. Marwa R. Petro	Energy Engineer
Mr. Levina Kashushura	Eng. Trainee
タンザニア電力公社	
Tanzania Electric Supply Company ltd (TANESCO)	
Mr. Wiliam G. Mhando	General Manager (Marketing)
Mr. Felchesmi J. Mramba	Ag. General Manager (Marketing)
Ms. Sophia S. Mgonja	Senior Manager Distribution
Mr. Robert M. Semsella	Manager Electrification
Mr. Seleman Mgwira	Principal Engineer
Mr. Theodory F. Bayona	Principal Engineer – Distribution Planning
Mr. Emmanuel G. Manirabona	Senior Electrical Engineer (Projects)
Mr. Hamdun R. Mansur	Principal Environmental Engineer
Mr. Elisa Kirimbo	Mapping Engineer
タンザニア電力公社 キリマンジャロ事務所	
Tanzania Electric Supply Company ltd (TANESCO) Kilimanjaro Office	
Mr. Zakayo G. Temu	Regional Manager
Mr. Stephan J. Mfundo	Principal Engineer / Regional Revenue Protection Engineer
Mr. Honest E. Moshy	Principal Engineer
Mr. Donasiano J. Shamba	Construction Engineer
Mr. Charles Mwandu	Design and Planning Engineer
Mr. Peter U. Masanja	Emergency and Maintenance Engineer
Mr. Jackson J. Mndeme	Electrical Technician
Mr. Rajab M. Haule	Electrical Technician

Mr. Amir Kilimo	Senior Technician
Mr. Oscar Muhanba	Surveyor of Tanga Office
Mr. James E. Chinula	District Manager of Hai Office
Mr. Hashim M. Munisi	Electrical Engineer of Hai Office
Mr. Raymond H. Tuppa	District Manager of Rombo Office
Mr. Gabriel Shoo	Accounts Supervisor of Tarakea Office
Mr. Rodrock Kiwea	Foreman of Tarakea Office
Mr. Festo Nhembo	System Supervisor of Same Substation

タンザニア道路公社

Tanzania National Road Agency (TANROADS - KILIMANJARO)

Eng. Japherson M. Nnko	Head of Planning Unit
Eng. Leonard M. E. Chimagu	Head of Engineering Unit

国家環境管理審議会

National Environmental Management Council (NEMC – Dar es Salaam)

Mr. Kamugenyi Lutenganya	Environmental Consultancy
--------------------------	---------------------------

Ministry of Infrastructure Development

Ms. Fauster M. Ngowi	Principal State Attorney (Head Legal Unit)
Mr. Sihaba S. Nkinga	Director for Policy and Planning
Mr. Aunyisa Boniface Meena	Senior Transport Economist

Ministry of Lands, Housing & Human Settlement (Dar es Salaam)

Dr. Selassie D. Mayunga	Assistant Director, Surveys & Mapping Division
-------------------------	--

International Union for Conservation of Nature (IUCN – Dar es Salaam)

Mr. Abdallah Said Shah	Head of Tanzania Office
Mr. Victor Kamagenge	Program Officer

自然資源・観光省

Ministry of Natural Resources and Tourism

Mr. Julius M. Mkumbo	Senior Forest Officer of Forestry and Beekeeping Division
----------------------	---

Mr. Msami Mshana

District Natural Resources Officer

Regional Commissioner Office

Mr. Hassan M. Bendeyeko

Assistant of Regional Administrative Secretary

Pangani Basin Water Office

Mr. Phillip Patrick

Assistant of Regional Administrative Secretary

モシ都市協議会

Moshi Municipal Council

Ms. Bernadette Kinabo

Municipal Director

Mr. Mr. Neville D. Msaki

Acting Municipal Engineer

Mr. Mwasumbi A. E

Town Planner

モシ地方協議会

Moshi District Council

Ms. E. N. Mbarian

Acting District Director

Mr. Mseo P. Hro

Director of Human Resource

Eng. Joag S. LA. Luntrgnner

Director of Engineering

世界銀行タンザニア事務所

The World Bank Tanzania Office

Mr. Robert Schlotterer

Financial Analyst, Energy Team

韓国輸出入銀行

Korea Eximbank

Ms. Hye – Kyung Lee

EDCF Tanzania Country Director

タンザニア鉄道会社

Tanzania Railways Limited

Mr. Surendra Singh Bisht

Addl Executive Director (Infrastructure)

Mr. S. Musakileo

Permanent Way Inspector

その他(工場、学校、病院など)

Others (Factories, Schools, Hospitals)

Mr. Jaffari Ally	Corporate Services Executive Manager of TPC Limited
Mr. David Calwell	Senior Electrical Engineer of TPC Limited
Mr. Nizam Codabux	AFEO of TPC Limited
Mr. Wilfred N. Swai	Head of Engineering of KCMC Hospital
Ms. Juliana R. Muro	Senior Admin Officer
Mr. Nsairo Nkiwi	Admin Officer of Wild Life College
Mr. Peris S. Ayo	Head of PMU of Wild Life College
Ms. Ngina Maitru	Housekeeper of Wild Life College
Mr. Mariin K. Magogwa	Health Secretary of Kibongoto National TB Hospital
Mr. Edward Kavishi	Electrician of Kibongoto National TB Hospital
Mr. Mandonde H. S.	Electrical Engineer of Dekker Bruins
Mr. Euzebio Mveyange	Electrical Engineer of Dekker Bruins
Mr. Onesmo Silaa	Manager of Kiliwood Products LTD
Mr. Samuel	Operator of Kiliwood Products LTD
Ms. Eupheia Masita	Manager of Woman's Saw Mill Company
Ms. Cesilia Mrema	Accountant of Woman's Saw Mill Company
Mr. Joseph Silialla	Electrical Foreman of Kilimanjaro Plantation LTD.
Mr. A. H. B. M. Nijenhuis M. Sc	Managing Director of Vasso Agroventures Ltd.

在タンザニア日本国大使館

Embassy of Japan in Tanzania

中川 坦 氏	特命全権大使
関 行規 氏	二等書記官

JICA タンザニア事務所

JICA Tanzania Office

勝田 幸秀 氏	所長
長谷川 敏久 氏	次長
丸尾 信 氏	所員
山本 美奈子 氏	所員
田内 智子 氏	企画調査員(インフラ案件形成促進・監理)

JICA 技術協力プロジェクト専門家(効率的な送配電システムのための能力開発プロジェクト)
The Project for Capacity Development of Efficient Distribution and Transmission Systems

長坂 二郎 氏

チーフアドバイザー

小田桐久夫 氏

研修機能強化／業務調整

資料－4 討議議事録 (M/D)

4. 討議議事録 (M/D)
(第一次現地調査)

Minutes of Discussions
on 1st Preparatory Survey on the Project for
Rehabilitation of Substation and Transmission Line in Kilimanjaro Region
in the United Republic of Tanzania

In response to the request from the Government of the United Republic of Tanzania (hereinafter referred to as "Tanzania"), 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 Rehabilitation of Substation and Transmission Line in Kilimanjaro Region (hereinafter referred to as "the Project").

JICA sent to Tanzania the 1st Preparatory Survey Team (hereinafter referred to as "the Team"), headed by Mr. Mitsuhiro MAEHARA, Director for Electric Power Division, Industrial Development Department for International Cooperation, JICA. The Team is scheduled to stay in the country from April 14 to May 5, 2010.

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

Dar es Salaam, April 23, 2010

前 原 亮 宏

Mitsuhiro Maehara

Leader

1st Preparatory Survey Team

Japan International Cooperation Agency

B

Bashir J. Mrindoko

Commissioner for Energy and Petroleum Affairs

Ministry of Energy and Minerals

The United Republic of Tanzania

William G. Mhando

William G. Mhando

Acting Managing Director

Tanzania Electric Supply Company Ltd.

The United Republic of Tanzania

Witnessed by :

Ngosha Said Magonya

Ngosha Said Magonya

Commissioner for External Finance

Ministry of Finance and Economic Affairs

The United Republic of Tanzania

ATTACHMENT

1. Objective of the Project

The objective of the Project is to rehabilitate the substations and transmission/distribution network in Kilimanjaro Region.

2. Project Site

The Project sites are located in Kilimanjaro Region as shown in Annex-1.

3. Responsible and Implementing Organization

- (1) The responsible ministry is Ministry of Energy and Minerals (MEM).
- (2) The implementing Organization is Tanzania Electric Supply Company Ltd (TANESCO).
- (3) The Organization Structure of MEM and TANESCO are shown in Annex-2 and Annex-3.

4. Items Requested by the Tanzania side

The Tanzania side requested to revise the component of Japan's Grant Aid Application which was submitted in July, 2008, and the Summary of the requests are described below. Also detailed contents of each request are described in Annex-4.

- (1) Construction of 33/11kV substations (KCMC, Gomberi)
- (2) Upgrading of existing 33/11kV substations (YMCA, Lawati, Machame)
- (3) Construction of 66/33kV substation (Makuyuni)
- (4) Installation of 66kV transmission line from Kiyungi to Makuyuni
- (5) Installation of 33kV transmission lines from Trade School to Gomberi
- (6) Installation of 33kV transmission lines from Makuyuni to existing lines
- (7) Installation of switching bay at Mkuu Rombo
- (8) Installation of 132/66kV transformer at Kiyungi substation
- (9) Installation of 132kV incoming/outgoing bays at Same substation

JICA will assess the appropriateness of the request for Japan's Grant Aid.

5. Japan's Grant Aid Scheme

- (1) The Tanzania side has understood Japan's Grant Aid Scheme explained by the Team as described in Annex-5.
- (2) The Tanzania side will take the necessary measures, as described in Annex-6, for smooth implementation of the Project as prerequisites for the Japan's Grant Aid to be implemented.

6. Schedule of the 1st Preparatory Survey

The Team will continue the Survey in Tanzania until May 5, 2010. Based on the results of the Survey, JICA will send the 2nd Preparatory Survey Team.

7. Other Relevant Issues

- (1) Status of the 1st Preparatory Survey

The Team explained that the purpose of the Survey is to collect necessary information and data

for evaluating the relevance, appropriateness and urgency of the Project, and identify the issues to be cleared for implementation of the Project.

(2) Coordination among relevant donors and agencies

The Team requested the Tanzania side to ensure coordination among relevant donors and agencies for smooth implementation of the Project.

(3) Environmental and Social Considerations

- a) The Team requested the Tanzania side to ensure access to the site and undertake expropriation if necessary in order to secure the project site.
- b) The Team requested the Tanzania side to conduct the required environmental works, and obtain approval on environmental clearance for implementation of the Project
- c) The Tanzania side agreed to comply with the JICA Guidelines for Environmental and Social Considerations (hereinafter referred to as "JICA Guidelines") as well as Tanzanian laws and regulations, and requested to prepare Environmental Checklist and Monitoring Form which are designated by JICA Guidelines for an outline design.
- d) The Tanzania 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.

(4) Counterpart Personnel

The Team requested the Tanzania side that necessary number of counterpart personnel shall be assigned to the Team and necessary arrangements with related organizations be made during the Survey in Tanzania.

The Team requested the Tanzania side that the answers to the questionnaire which the Team already submitted to the Tanzania side shall be given to the Team by April 30, 2010.

(End)

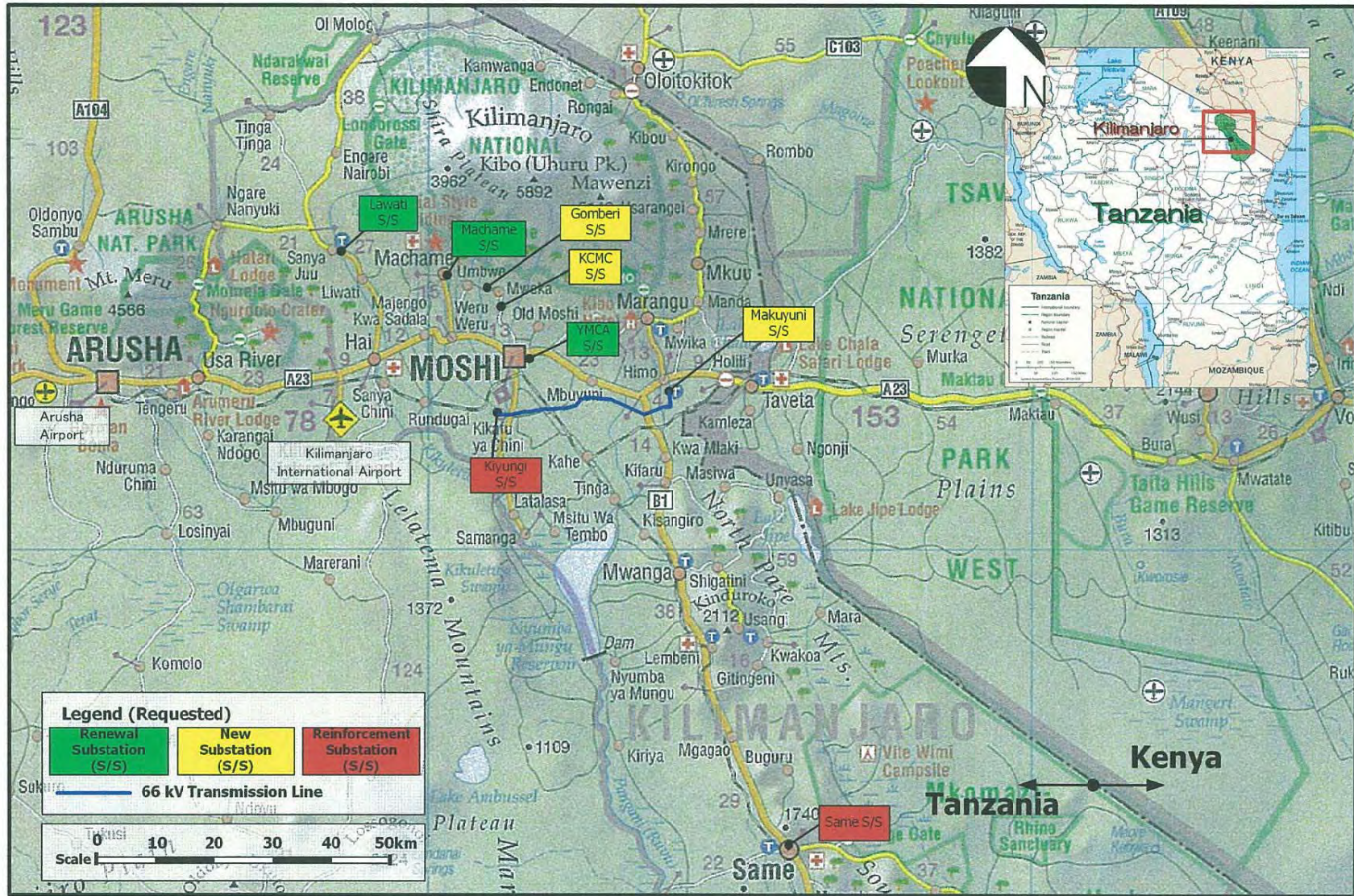
- Annex-1 Project site
- Annex-2 Organization Structure of Ministry of Energy and Minerals
- Annex-3 Organization Structure of TANESCO (Head office and Kilimanjaro office)
- Annex-4 Detailed contents of each request
- Annex-5 Japan's Grant Aid Scheme
- Annex-6 Major Undertakings to be taken by Each Government

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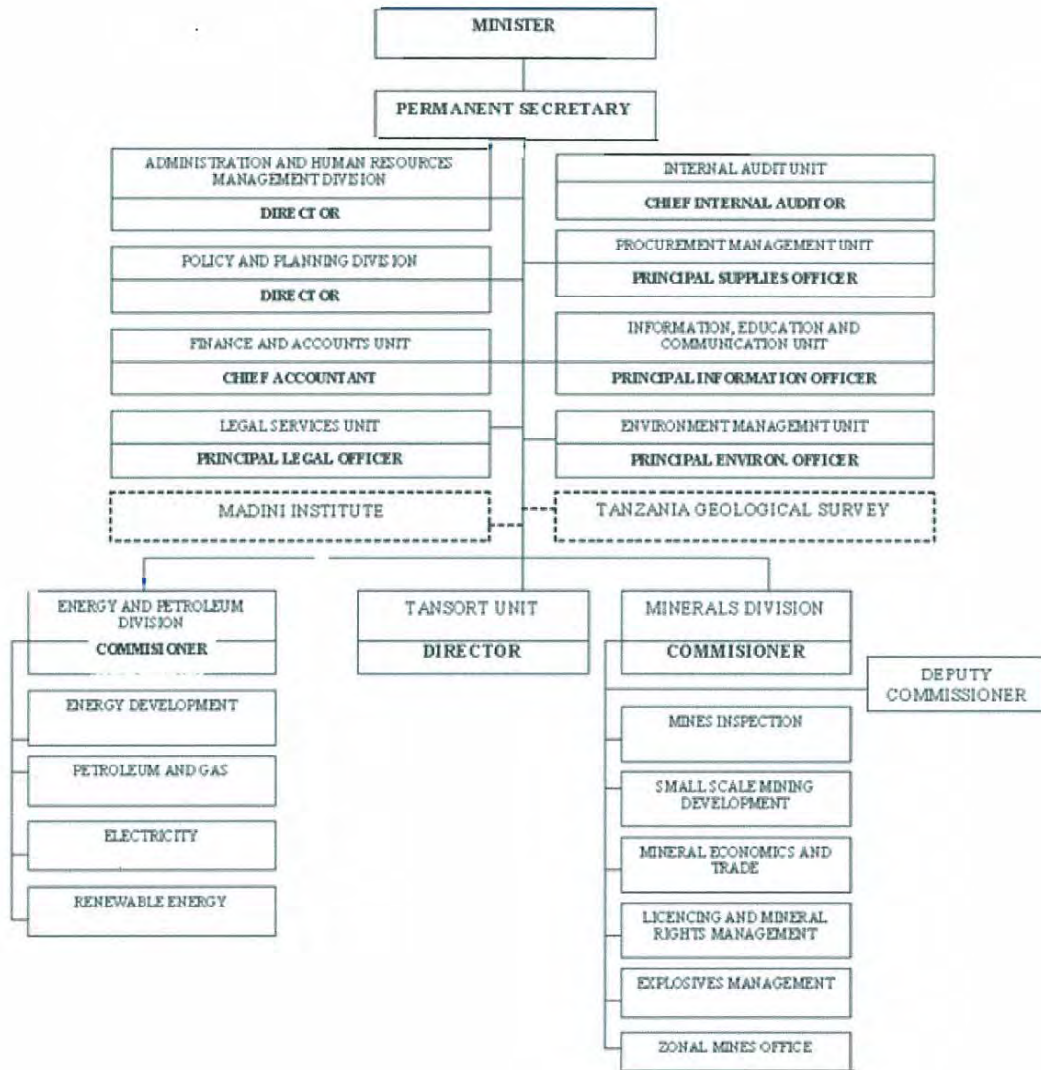
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Proposed Project Sites

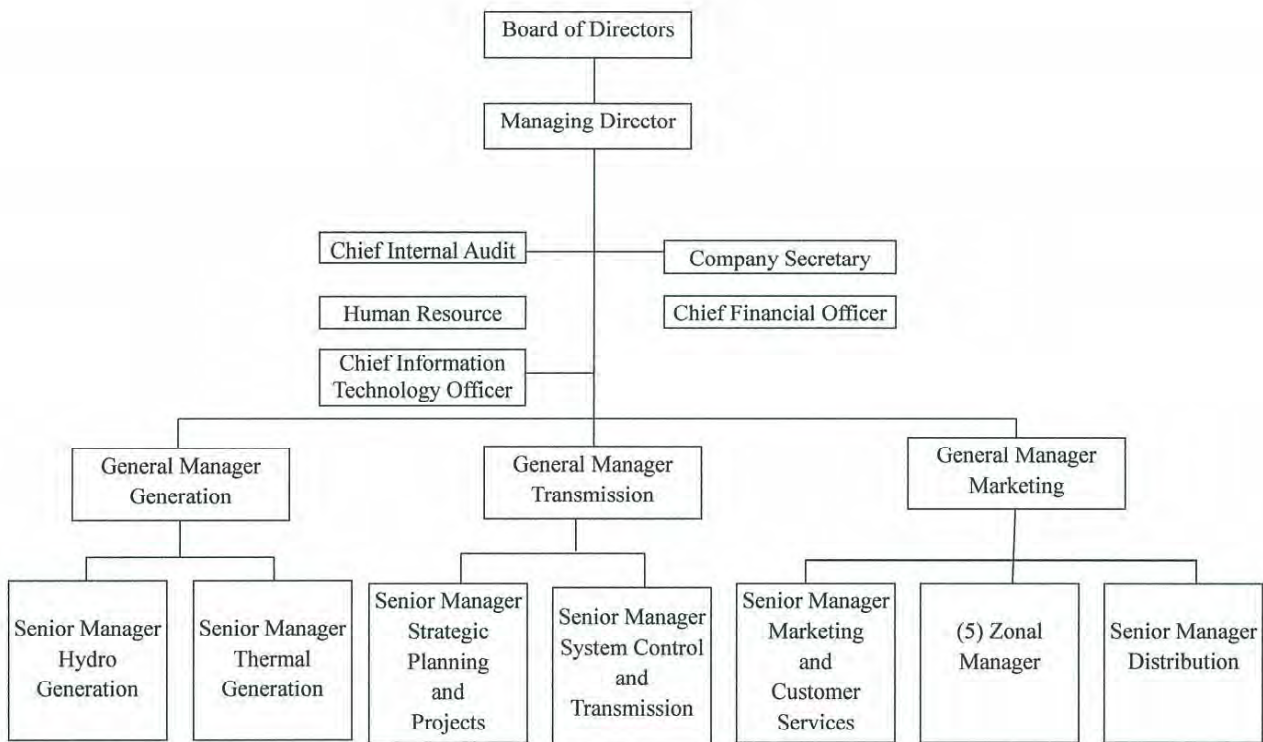


ORGANIZATION STRUCTURE OF MINISTRY OF ENERGY AND MINERALS

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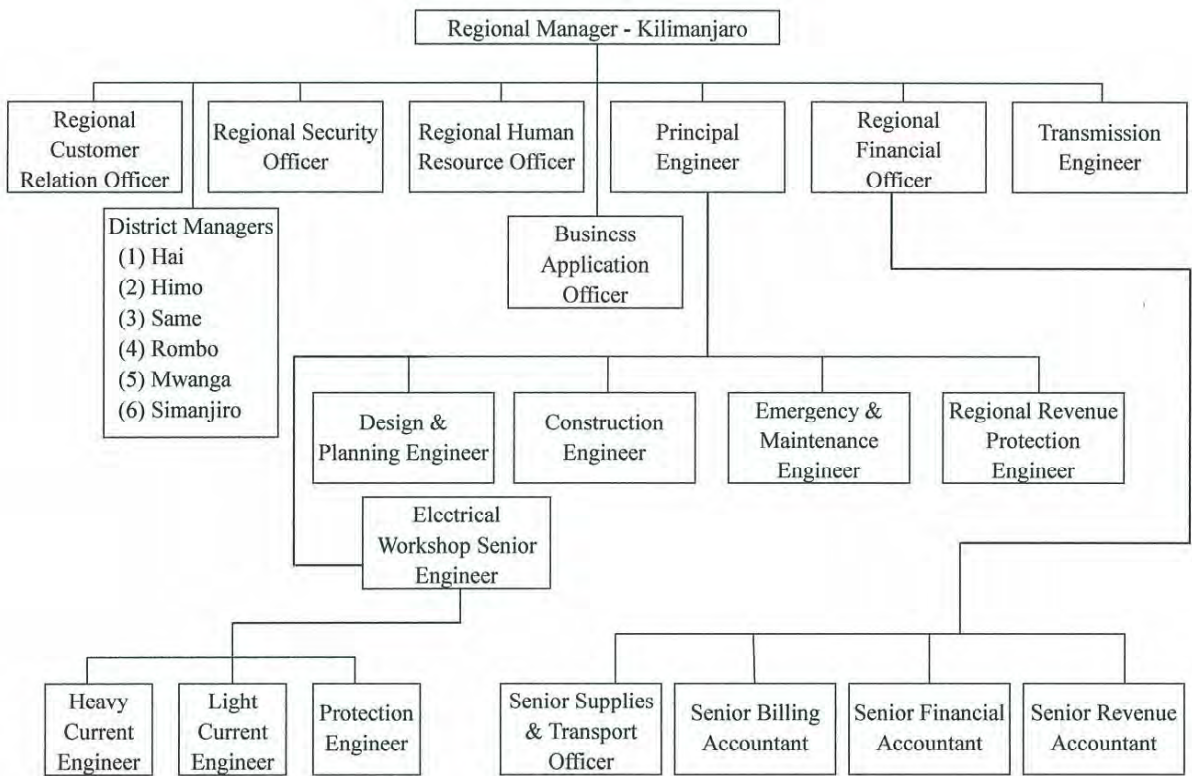
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ORGANIZATION STRUCTURE OF TANESCO HEAD OFFICE

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ORGANIZATION STRUCTURE OF TANESCO KILIMANJARO OFFICE

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[Signature]

[Signature]

Items Requested by Tanzanian Side

A. 33/11kV, 15MVA Transformer Substation at YMCA

- a) 33kV Incoming switchgear panel with VCB (1 No.)
- b) 33/11kV, 15MVA Transformer with On-load Tap-changer (1 No.)
- c) 11kV switchgear panel (6 Nos.)
 - Transformer secondary (1 No.)
 - Line feeder (3 Nos.)
 - Station supply transformer (1 No.)
 - LV supply and control (1 No.)
- d) 33kV Cable and end treatment material (1 Lot)
- e) 11kV Cable and end treatment material (1 Lot)
- f) Miscellaneous (1 Lot)
- g) Civil and Installation work (1 Lot)

B. 33/11kV, 10MVA Transformer Substation at Lawati

- a) 33kV Incoming switchgear panel with VCB (1 No.)
- b) 33/11kV, 10MVA Transformer with On-load Tap-changer (1 No.)
- c) 11kV switchgear panel (6 Nos.)
 - Transformer secondary (1 No.)
 - Line feeder (3 Nos.)
 - Station supply transformer (1 No.)
 - LV supply and control (1 No.)
- d) 33kV Cable and end treatment material (1 Lot)
- e) 11kV Cable and end treatment material (1 Lot)
- f) Miscellaneous (1 Lot)
- g) Civil and Installation work (1 Lot)

C. 33/11kV, 10MVA Transformer Substation at Machame

- a) 33kV Incoming switchgear panel with VCB (1 No.)
- b) 33/11kV, 10MVA Transformer with On-load Tap-changer (1 No.)
- c) 11kV switchgear panel (6 Nos.)
 - Transformer secondary (1 No.)
 - Line feeder (3 Nos.)
 - Station supply transformer (1 No.)
 - LV supply and control (1 No.)
- d) 33kV Cable and end treatment material (1 Lot)
- e) 11kV Cable and end treatment material (1 Lot)
- f) Miscellaneous (1 Lot)
- g) Civil and Installation work (1 Lot)

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D. 33/11kV, 10MVA Transformer Substation at KCMC

- a) 33kV incoming switchgear panel with VCB (3 Nos.)
- b) 33/11kV, 10MVA Transformer with On-load Tap-changer (1 No.)
- c) 11kV switchgear panel (6 Nos.)
 - Transformer secondary (1 No.)
 - Line feeder (3 Nos.)
 - Station supply transformer (1 No.)
 - LV supply and control (1 No.)
- d) 33kV Cable and end treatment material (1 Lot)
- e) 11kV Cable and end treatment material (1 Lot)
- f) Miscellaneous (1 Lot)
- g) Civil and Installation work (1 Lot)

E. 33kV Outgoing bay at Trade School substation

- a) 33kV Outgoing switchgear panel with VCB (1 No.)
- b) 33kV Cable and end treatment material (1 Lot)
- c) Civil and Installation work (1 Lot)

F. Installation of 33kV transmission lines from Trade School to Gomberi

- a) 33kV transmission line from Trade School to KCMC (3.7km)
- b) 33kV transmission line from KCMC to Gomberi (4.9km)

G. 33/11kV, 10MVA Transformer Substation at Gomberi

- a) 33kV Incoming switchgear panel with VCB (1 No.)
- b) 33/11kV, 10MVA Transformer with On-load Tap-changer (1 No.)
- c) 11kV switchgear panel (6 Nos.)
 - Transformer secondary (1 No.)
 - Line feeder (3 Nos.)
 - Station supply transformer (1 No.)
 - LV supply and control (1 No.)
- d) 33kV Cable and end treatment material (1Lot)
- e) 11kV Cable and end treatment material (1Lot)
- f) Miscellaneous (1Lot)
- g) Civil and Installation work (1Lot)

H. 66/33kV, 20MVA Transformer Substation at Makuyuni

- a) 66kV Incoming line bay with GCB, etc. (1 Lot)
- b) 66kV Transformer bay (2 Lots)
- c) 66/33kV, 10MVA Transformer with On-load Tap-changer (2 Nos.)
- d) 33kV switchgear panel (7 Nos.)
 - Transformer secondary (2 Nos.)
 - Line feeder (4 Nos.)
 - Station supply transformer (1 No.)

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- e) 66kV Control and protection panel (3 Nos.)
- f) 33kV Control and protection panel (6 Nos.)
- g) DC Supply Equipment (1 Set)
- h) 66kV Conductor (1 Lot)
- i) 33kV Cable and end treatment material (1 Lot)
- j) Miscellaneous (1 Lot)
- k) Civil, Building and Installation work (1 Lot)

I. 66kV Outgoing bay at Kiyungi

- a) 66kV transmission line with GCB (1 Lot)
- b) 66kV Control panel (1 No.)
- c) Civil and Installation work (Expansion, 1 Lot)

J. Installation of New 66kV transmission line from Kiyungi to Makuyuni (34km)

K. 132kV Incoming/Outgoing bays at Same

- a) 132kV line bay with GCB, DS, etc. (2 Lots)
- b) 132kV Transformer bay (1 Lot)

L. Installation of 33kV transmission lines from Makuyuni to the existing lines (49km)

- a) 33kV transmission line from Makuyuni to Rombo-Mkuu
- b) 33kV transmission line from Makuyuni to Kilema
- c) 33kV transmission line from Makuyuni to Marangu
- d) 33kV transmission line from Makuyuni to Himo town

M. Installation of switching bay at Mkuu Rombo

- a) 33kV Incoming switchgear (1 No.)
- b) 33kV Outgoing switchgear (2 Nos.)
- c) 33kV Cable and end treatment material (1 Lot)
- d) Miscellaneous (1 Lot)
- e) Civil and Installation work (1 Lot)

N. Installation of 132/66kV, 20MVA transformer at Kiyungi substation

- a) 132/66kV, 20MVA transformer with On-load tap changer (1 No.)
- b) 132kV switch gear (1 Lot)
- c) 66kV switch gear (1 Lot)
- d) 132kV Control and Protection panel (1 No.)
- e) 66kV Control and Protection panel (1 No.)
- f) Miscellaneous (1 Lot)
- g) Civil and Installation work (1 Lot)

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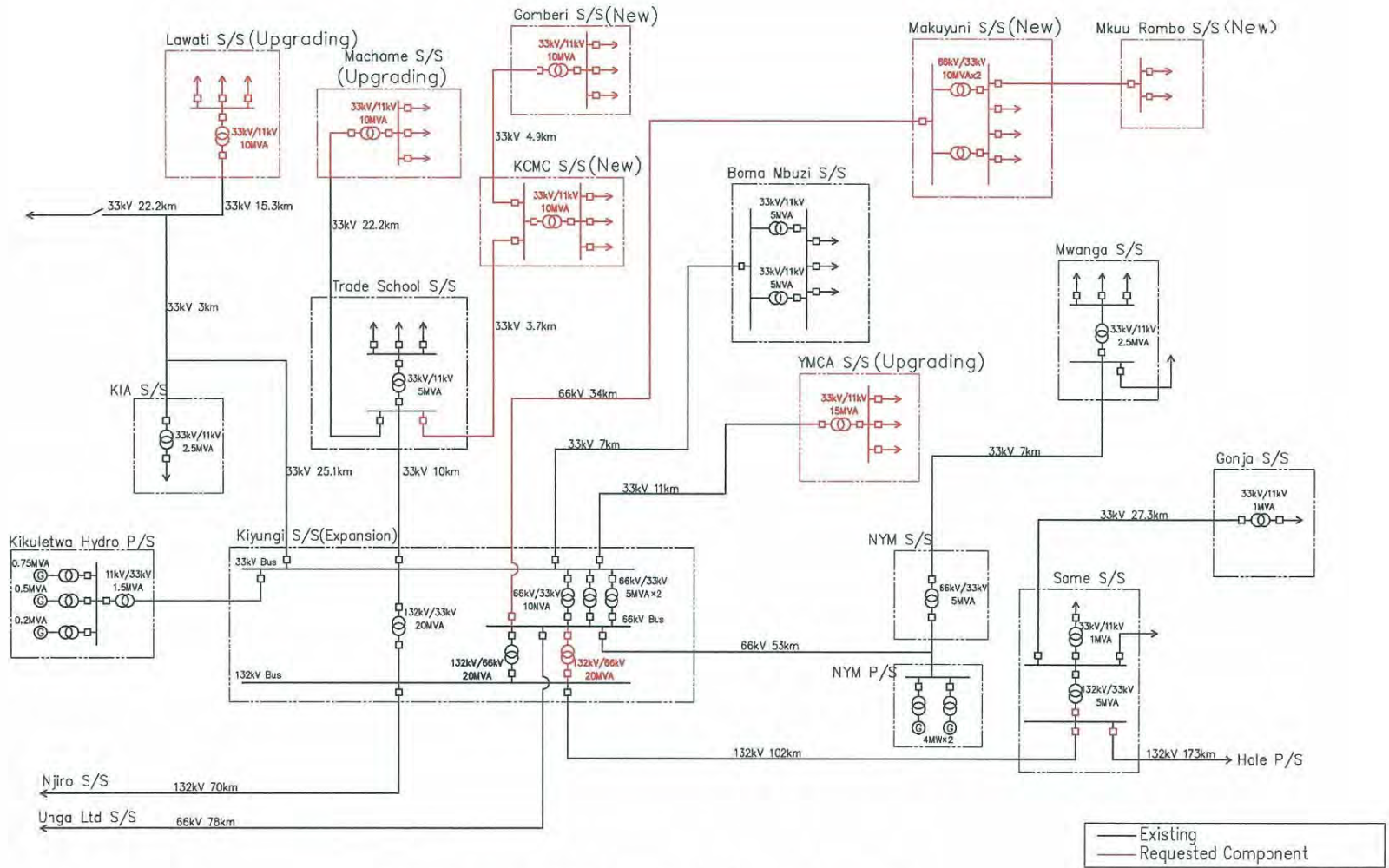
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Transmission and Distribution System in Kilimanjaro

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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 the law and the decision of the Government of Japan (hereinafter referred to as “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 to a recipient country to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. The Grant Aid is not supplied through the donation of materials as such.

1. Grant Aid Procedures

The Japanese Grant Aid is conducted as follows-

- Preparatory Survey (hereinafter referred to as “the Survey”)
 - The Survey conducted by JICA
- Appraisal & Approval
 - Appraisal by The GOJ and JICA, and Approval by the Japanese Cabinet
- Determination of 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 Survey is to provide a basic document necessary for the appraisal of the Project by JICA and the GOJ. The contents of the Survey are as follows:

- Confirmation of the background, objectives, and benefits of the Project and also institutional capacity of agencies concerned 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 on by 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 considering the guidelines of the Japan's Grant Aid scheme.

JICA requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed

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even though they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

(2) Selection of Consultants

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

(3) Result of the Survey

The Report on the Survey is reviewed by JICA, and after the appropriateness of the Project is confirmed, JICA recommends the GOJ to appraise the implementation 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 plea 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

The consultant firm(s) used for the Survey will be recommended by JICA to the recipient country to also work on the Project's implementation after the E/N and the G/A, in order to maintain technical consistency.

(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 secure 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-7.

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(6) "Proper Use"

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

(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 in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). JICA will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.
- b) The payments will be made when payment requests are presented by the Bank to JICA under an Authorization to Pay (A/P) issued by the Government of the recipient country or its designated authority.

(9) Authorization to Pay (A/P)

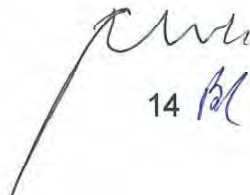
The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

(10) Social and Environmental Considerations

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

(End)

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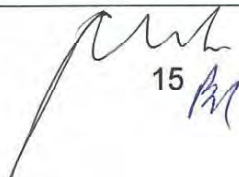


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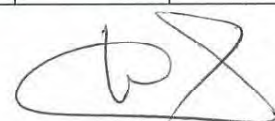
Major Undertakings to be taken by Each Government

No.	Items	To be covered by Grant Aid	To be covered by Recipient Side
1	to secure [a lot] /[lots] of land necessary for the implementation of the Project and to clear the [site]/[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 (including Access road)		●
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 [site]/[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		●
	b. The gas supply system within the site	●	
	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 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] / [be borne by the Authority without using the Grant]		●
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]/[the Facilities]/ [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 consideration in the implementation of the Project.		●

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