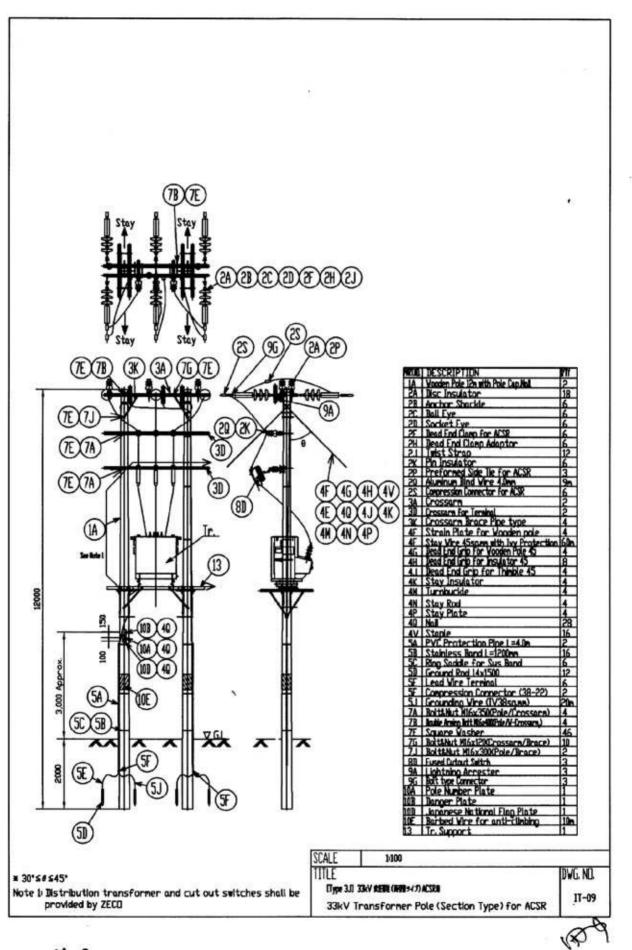
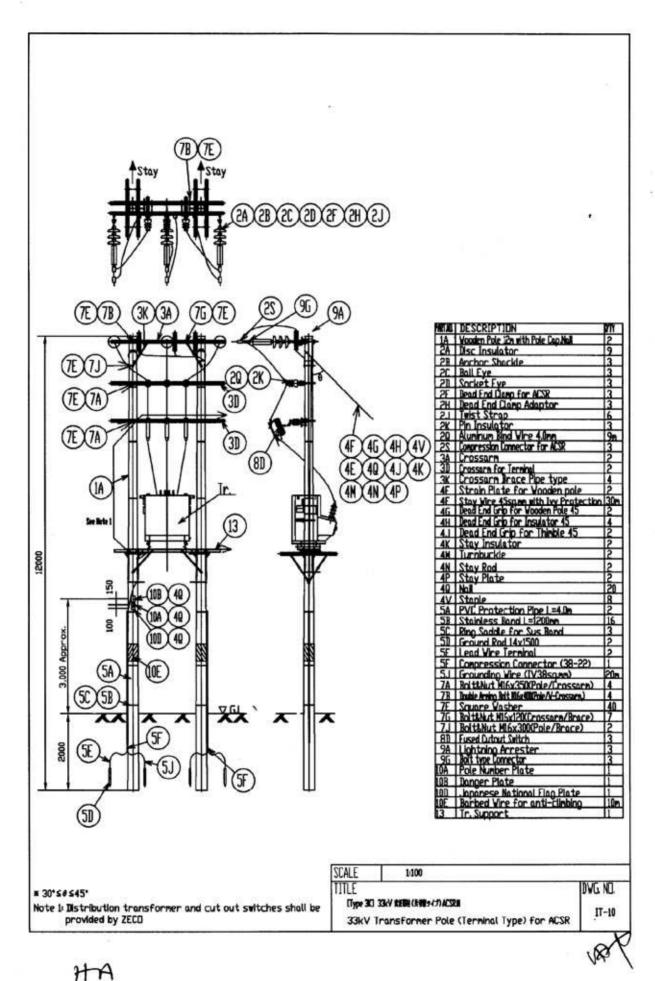


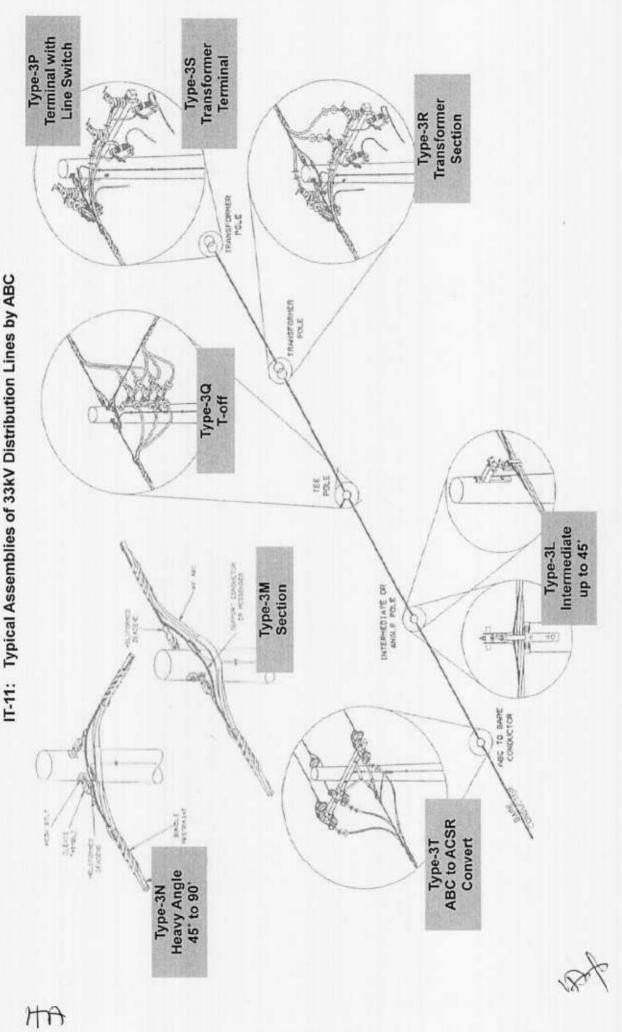
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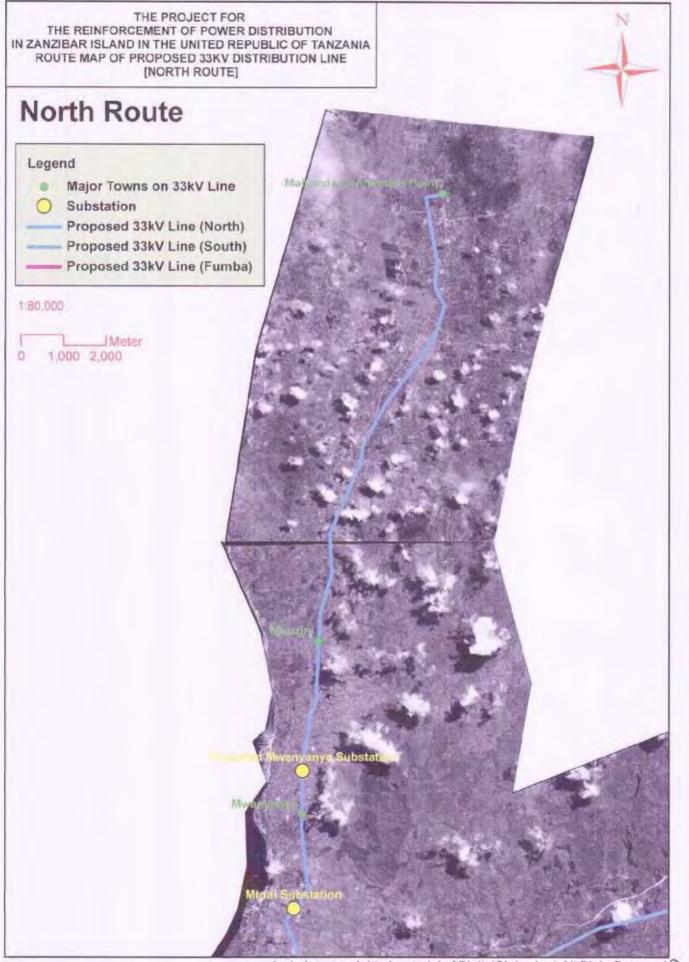


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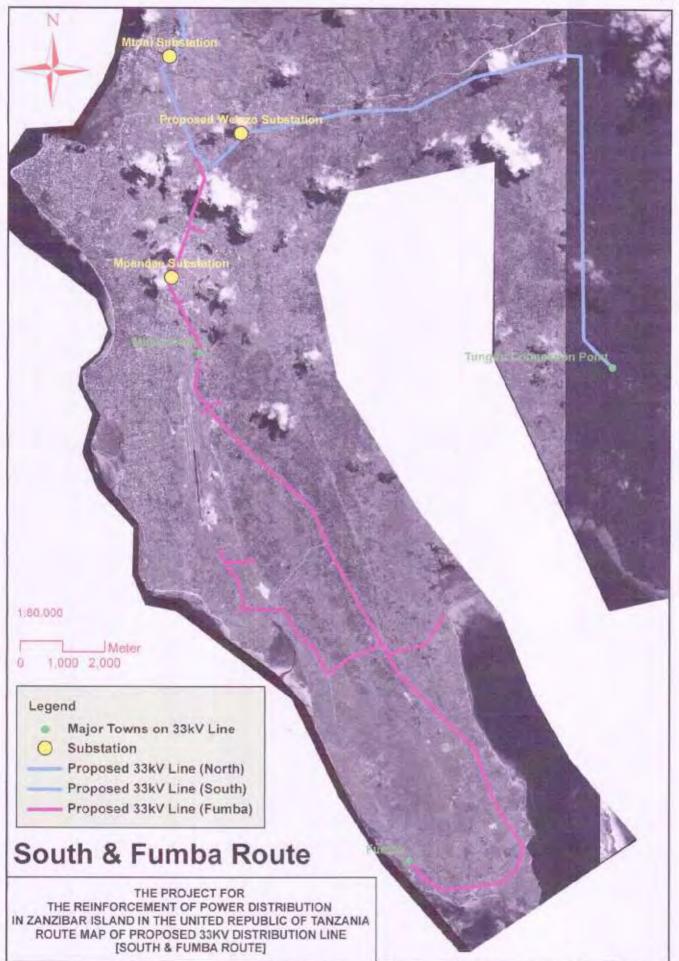
# project sites



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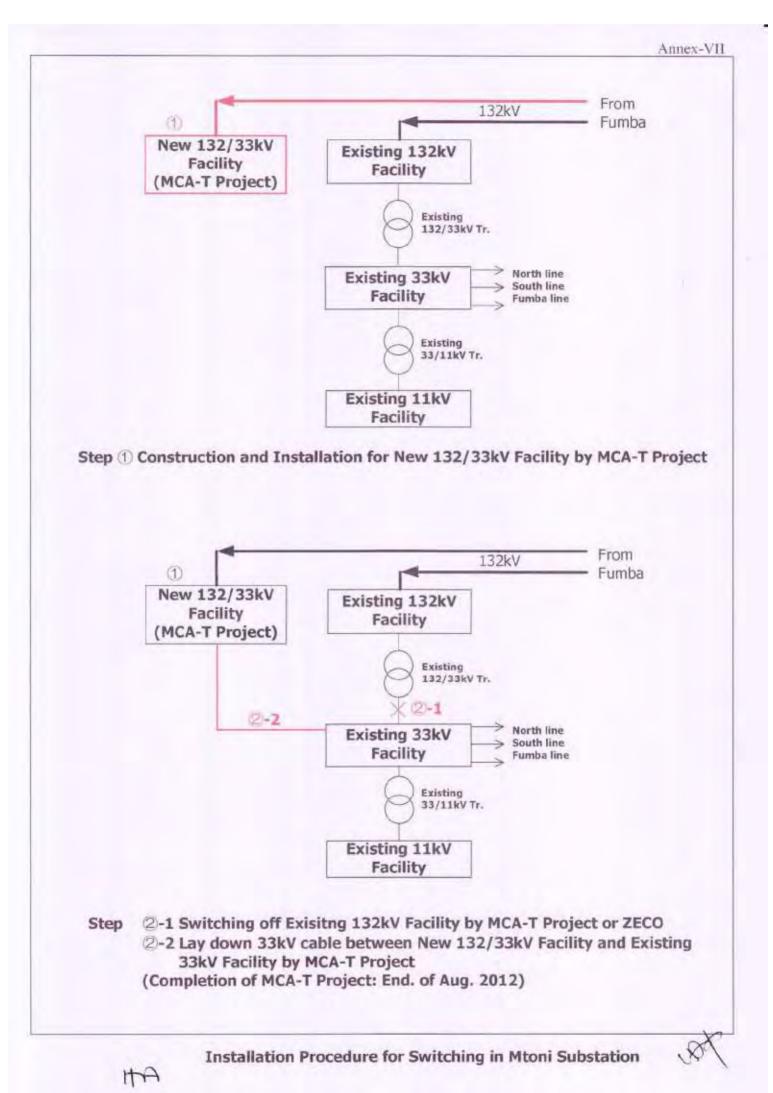
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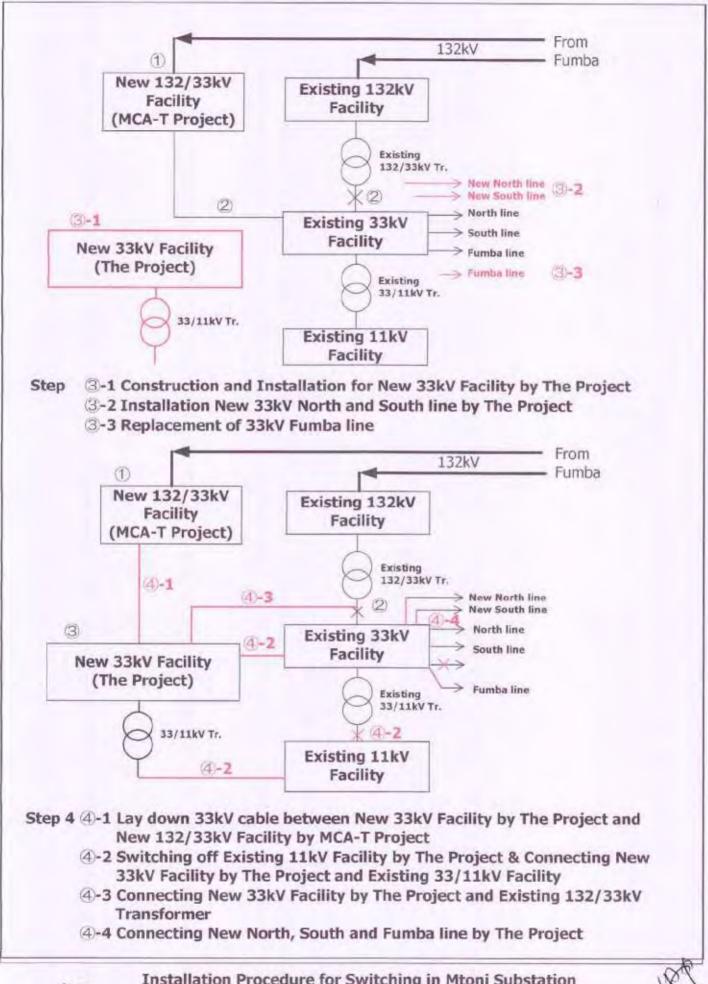
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Line	Section	From	То	Type of Area	Conductor	Length (km)	Houses to be Affected
	1	Mbuzini	Mahonda	Along Existing Line in Farm Area	ACSR	13.0	16
No	2	Mwanyanya	Mbuzini	Along Existing Line in Residential Area	ABC	4.4	0
North Line	3	Military Camp	Mwanyanya	Along Existing Line	ACSR	2.9	
	4	Existing Mtoni S/S	Military Camp	in Military Camp	ACSK	Sub-total 20.3	0
Fumba Line	5	Existing Mtoni S/S	Amani	Along Existing Line	ABC	8.6	0
	6	Amani	Mitondooni	in Residential Area			
Line	7	Mitondooni	Fumba	Along Existing Line	ACSR	29.9 Sub-total 38.5	22
Sou	8	Existing Mtoni S/S	Welezo S/S	Along Fumba Line and Road	ABC	4.3	0
South Line	9	Welezo S/S	Tunguu	Along Existing Line in Farm Area	ACSR	17.7 Sub-total 22.0	19
						CSR: 63.5 km BC: 17.3 km	57

### Detail of 33kV Distribution Route

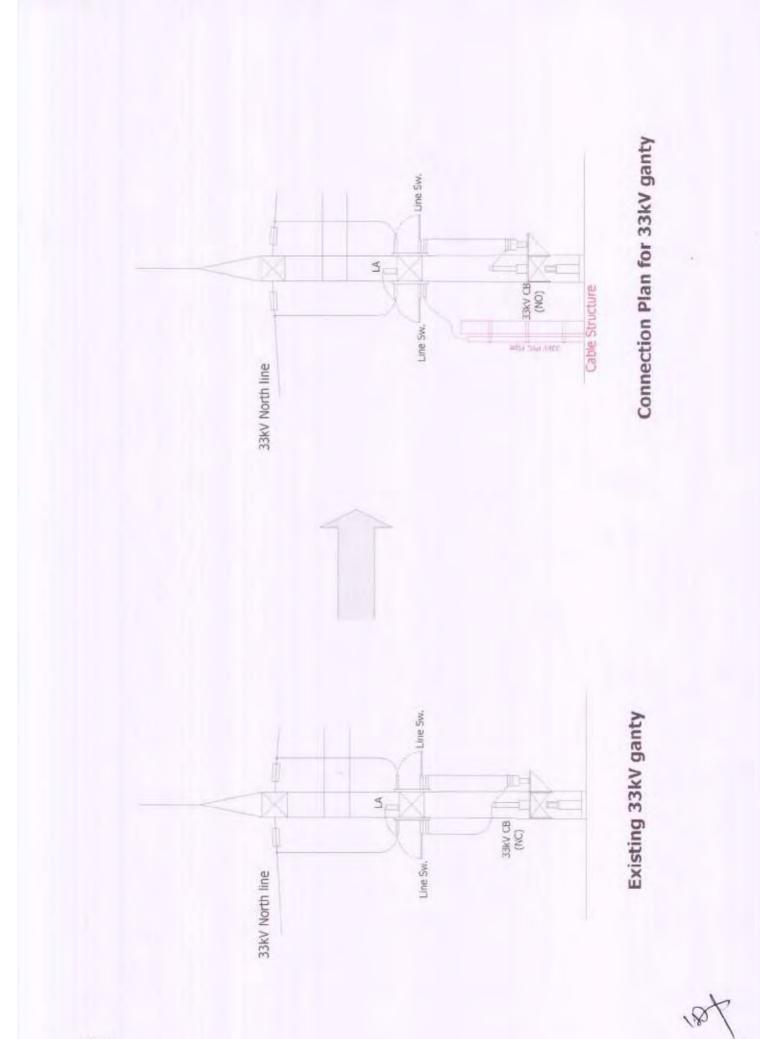






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Installation Procedure for Switching in Mtoni Substation



Annex-VIII

TENTATIVE IMPLEMENTATION SCHEDULE FOR THE FROJECT FOR THE REINFORCEMENT OF POWER DISTRIBUTION NETWORK IN ZANZIBAR ISLAND IN THE UNITED REPUBLIC OF TANZANIZA (for Reference Only)

As of October 2010

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**Financial Plan** 

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There is no break down about financial balance as of 2006, 2007 and 2008 because Ministry of Trannee made it before ZECO made such kind of balance sheet from 2009 annual report. Operating Cost will be reduced because Fuel Oil Fee going to reduced due to marine cable installation in Unguja and Pemba Island.

Staffs Training Fee shall be include financial plan

Maintenance parts cost will be need after implementation of the Project for example Main Transformer, Distribution Transformer, Switch Gent, Control Panel, Station Service, Arrester for Distribution Line and Line Accident.

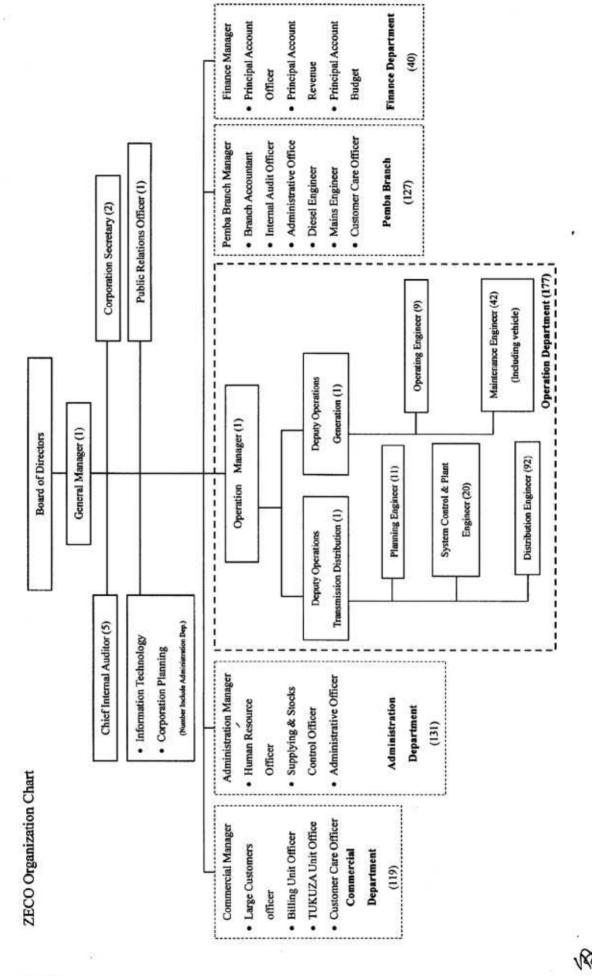
Depreciation of the Project shull include after implementation in 2013.

Damand of SMW for Extinction for Zauzibur arryort project shall be include from in 2015

Development budget for new facility shall be included in the financial plan. for example Capacitor Station and New Distribution Line. .

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Annex-X



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### Annex-XI

## 15/10/2010 (Shibata)

Oct.2010	1	Date	Contents	Data collection & Reporting	Progress Report
	1	Fri.		•	• (1)
	2	Sat.		•	
	3	Sun.			
	4	Mon.	Military Meeting(1)	•	
	5	Tue.	Military Meeting(2)	•	
	6	Wed.	Local Community Leader's Meeting(1)	•	
	7	Thu.	Local Community Leader's Meeting(2)	•	
	8	Fri.	Local Community Leader's Meeting(3)	•	
	9	Sat.	Local Community Meeting(1)	•	• (2)
	10	Sun.			
13	11	Mon.		•	
	12	Tue.		•	
	13	Wed.	Local Community Meeting(2)	•	
	14	Thu.	Local Community Meeting(3) Holiday	•	-
	15	Fri.	Local Community Meeting(4)	0	
	16	Sat.	Local Community Meeting(5)	0	O (3)
	17	Sun	Staff Meeting (JICA)	0	
	18	Mon.	Local Community Meeting(6)	0	
	19	Tue.	Staff Meeting (JICA, ZECO & DoE) for EIA schedule in ZECO: AM9:00	0	
	20	Wed.	[JICA Study Team $\rightarrow$ Dar es Salam]	0	0(4)
	21	Thu.		0	
	22	Fri.	Progress of EIA Report (Draft) for Japan Embassy in Tanzania & JICA	0	
	23	Sat.		0	
	24	Sun			
	25	Mon.	Submit EIA Report (Draft:6 copies) to DoE [JICA Study Team → Japan]	0	O (5)
	26	Tue.	in the second	0	
	27	Wed.		0	
	28	Thu.		0	
	29	Fri.	Submit EIA Report (Final:6 copies) to DoE		
	30	Sat.			
	31	Sun			

# EIA Schedule ( Project for the Reinforcement of Power Distribution in Zanzibar)

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Annex-XII

**Power Demand Forecast** 

	Capaci	Capacity(MW)									Max Po	Max. Power Demand (MVV)	and (MV)	0							
Nome of Feeder	Proc Land	New/			Actual									Fore	Forecast						
	CASILING	Replace	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Mtoni S/S																					
North Feeder	15.6	15.0	5.12	6.51	8.51	9.00	9.68	10.40	11.18	9.60	10.32	11.09	11.93	12.82	13.78	14,82	15.93	17.12	18.41	19.79	21.27
South Feeder	15.6	15,6	4.53	4.95	5.29	5.22	5.61	6.03	6.48	6.80	7.31	7.86	8.45	9.03	9.76	10 49	11.28	12.13	13.04	14.02	15.07
Fumba Feeder	9.6	15,6	5.82	3,76	1.98	2.19	2.35	2.53	2.72	7.92	8.52	9.16	13.84	14.88	16.00	「西山	18.49	19.88	21.37	22.97	24.69
New North Feeder	- h	15.6			-1.	1	-	+	4	5.80	6.24	6.70	7.21	7.75	8.33	BBB	9.82	10.34	11.12	11.95	12.85
New South Feeder	1	15.6					1	•	5	6,20	6.67	7.16	7.70	8,28	8.90	14.6	10.29	11.06	11.89	12.78	13.74
Saateni 5	6.5	6.5	5.64	7.39	7.08	7.46	7.91	8.38	8.88	9.42	9.98	10.58	11 22	11.44	11.87	11.90	12.14	12.38	12.63	12.88	13.14
Saateni 6	5.7	5.7	7.45	7.37	7.15	6.59	6.59	7.40	7.85	8.32	8.82	9.35	16.6	10.11	10.31	10.52	10.73	10.94	11.16	11.38	11.61
Cotex	5.7	5.7	6.83	9.56	7.61	7.88	8.35	8.85	9.39	8.11	8.59	9.11	9,66	9.85	10.05	10.25	10.45	10.66	10.83	11.09	11.31
Mpendae SS	6.7	6.7	6.06	8.97	6.79	7.41	7.85	8.33	8.83	4.82	5,11	5.42	5.75	5.86	5.98	610	6.22	6,34	6.47	6.60	6.73
Total	65.70	102.60	41 45	47.51	44,41	45.75 48.74		51.93	55.33	97.00	71.56	76.44	85.66	10,08	84,78	55,66	105,15	110.66	116.95	123,46	130.42
33kV:7.5%/year																					

11kV:6%/year

A-5-57

Mwanvanva S/S		-	-						-		-				[
Dole feeder		-		0.78	0.83	0.88	0.93	0.98	1.04	1.15	1.17	1.24	1.32	1.40	1.48
Marhubi Feeder		-		1.06	1.12	1.19	1.26	1.34	1.42	1.50	1.59	1,69	1.79	1,90	2.01
Welezo S/S		-													
Kilmahawa Feeder				2.02	2.14	2.27	2.41	2.55	2.70	2.87	3,04	3.22	3.41	3,62	3.83
Bambi Feeder		-		2.51	2,66	2,82	2.99.	3.17	3,36	3.56	3.77	4.00	4.24	4.50	4.76

Target Year (2018) All the supply materials of the Project shall be installed by ZECO until the target year 2018.

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# **APPENDIX 6**

# OTHER RELEVANT DATA

## 6. Other Relevant Data

Survey Title: Preparatory Survey on the Project for the Reinforcement of Power Distribution in Zanzibar Islands in the United Republic of Tanzania

No	Title	Type (Printed Document, Video, Map, Photo, etc.)	Original/ Copy	Published by	Year of Publication
1	25MW EMRGENCY POWER AND BACK Report for DPs.doc	Printed Document	Сору	ZECO	Sep. 2010
2	Meteorological Data in Zanzibar	Printed Document	Сору	TANZANIA METEOROLOGICAL AGENCY ZANZIBAR OFFICE	2009
3	Screening Report with Terms of Reference and Guidelines for Abbreviated Resettlement Plan for Reinforcement of Power Distribution Project, Zanzibar	Printed Document	Сору	Department of Environment (DOE)	Sep. 2009
4	END-TERM REVIEW OF THE SWEDISH SUPPORT TO THE ZANZIBAR ENERGY SECTOR 2007-2009 FINAL REPORT	Printed Document	Сору	Ingvar Spanne	Jun. 2010
5	Zanzibar Energy Policy	Printed Document	Сору	Ministry of Water, Construction, Energy and Lands	Dec. 2009
6	33kV and 11kV Single Line Diagram	Diagram	Сору	ZECO	Sep. 2010
7	Single Line Diagram and Specification of Equipments in Mtoni Substation	Printed Document	Сору	ZECO	Oct. 2010
8	ZECO Construction Vehicle in Unguja	Printed Document	Сору	ZECO	Oct. 2010
9	Mpendae 33/11kV Substations & Networks Rehabilitation Project Contract Draft	Printed Document	Сору	Pauwels International	Oct. 2008
10	Rural Electrification Plan	Printed Document	Сору	Ministry of Water, Construction, Energy and Lands	Jul. 2010
11	Workable Study for the Second Submarine Interconnector Between Unguja Island and Ubungo Power Station Dar es Salaam	Printed Document	Сору	NORPLAN	Nov. 2006

No	Title	Type (Printed Document, Video, Map, Photo, etc.)	Original/ Copy	Published by	Year of Publication
12	Financial Statement for the Year Ended 30 <sup>th</sup> June 2009	Printed Document	Сору	ZECO	Jun. 2009
13	Terms of Reference End-review of the Phase IV and Extension of the Zanzibar Rural Electrification Project	Printed Document	Сору	Norad	Oct. 2008
14	Business Plan 2008/09 to 2010/11	Printed Document	Сору	ZECO	Sep. 2009
15	Environmental Impact Assessment (Guidelines and Procedures)	Printed Document	Сору	Department of Environment (DOE)	2010
16	Zanzibar Strategy for Growth and Reduction of Poverty (ZSGRP)	Printed Document	Сору	The Revolutionary Government of Zanzibar	2007
17	Zanzibar Strategy for Growth and Reduction of Poverty: 2010-2015 (ZSGRP II) MKUZA II Draft	Printed Document	Сору	The Revolutionary Government of Zanzibar	2010
18	Zanzibar's Growth Strategy (2006-2015) Final Report	Printed Document	Сору	Ministry of Finance and Economic Affaires	2007
19	Zanzibar Vision 2020	Printed Document	Сору	The Revolutionary Government of Zanzibar	2000
20	Zanzibar Statistical Abstract 2007	Printed Document	Сору	Office of Chief Government Statistician Zanzibar	2008
21	EIA Final Report	Printed Document	Сору	ZECO	Dec. 2010
22	RAP Final Report	Printed Document	Сору	ZECO	Jan. 2011

# **APPENDIX 7**

# LETTERS FROM RECIPIENTS COUNTRY

### 7. Letters from Recipients Country

(1) Request letter for additional new transformers at the Mtoni S/S

ZECO/CONF.1/JICA/VOL.1/36

# ZANZIBAR ELECTRICITY CORPORATION

Our Ref:

Enquiries: 024 2238321

Emergency: 024 2230232

ZECO

Head Office: P.O.Box: 235, Zanzibar, Tanzania Tel: +255 24 230237/8 Tel: +255 774 334455 Fax: +255 24 2231906 Email: zeco\_znz@hotmail.com

15 OCTOBER, 2010

YOUR EXCELLENCY, AMBASSADOR, EMBASSY OF JAPAN, DARES SALAAM, TANZANIA.

Sir,

## RE: REQUEST FOR THE INSTALLATION OF NEW 2X25MVA, 33/11kV TRANSFORMERS AT MTONI SUBSTATION UNDER REINFORCEMENT OF POWER DISTRIBUTION IN ZANZIBAR PROJECT

With honors, please refer to the above mentioned subject.

The Revolutionary Government of Zanzibar under the United Republic of Tanzania Government has requested the grant to the Government of Japan through Japan International Cooperation Agency (JICA), for the reinforcement of her main power distribution infrastructures to different areas in Unguja Island.

As part of preparation to the approval of the request, JICA has already sent different experts to justify the need and appropriateness of the project to the peoples of Zanzibar.

Previously, the contents of the project had been discussed in several times and minutes of discussions were signed between these two sides i.e. Zanzibar (Tanzanian side) and JICA (Japanese side).

#### All correspondence should be addressed to the General Manager We deserve to serve you better, while you ensure to settle your electricity bill before due date"

Due to its frequent and long service operation in power transforming activities, either stepping up (while generators are used in emergency mode) or stepping down (for the national grid power use), since they are commissioned in early 1980, our two transformers (33/11 kV) are now arises some abnormal functions that threat the power availability to medium voltage consumers which are now used by the whole areas around Zanzibar town. Oil leakage, water and gaseous contents in transformer oil are the normal causes of consecutive tripping occurs in these age'd substation transformers.

In view of that, we request for the change in contents of the project especially in the expansion of Mtoni substation to add the installation of these two transformers as mentioned in the above topic.

On behalf of the peoples and Government of Zanzibar, we thank you (Peoples of Japan) for your endless effort in assisting us in different areas such as water, agriculture and education.

Kindly regards,

Sincerely yours,

Hassan A. Mbarouk Acting General Manager, Zanzibar Electricity Corporation, <u>Zanzibar</u>.

Cc:

Principal Secretary, Ministry of Water, Construction, Energy and Land, <u>Zanzibar</u>.

#### (2) Letter of acknowledgement concerning environmental impact against wild birds



#### ZANZIBAR REVOLUTIONARY GOVERNMENT MINISTRY OF AGRICULTURE, LIVESTOCK AND ENVIRONMENT

Zanzibar	
P.O Box 159	
Department of Environme	ent

Kiyofusa Tanaka Chief Consultant JICA Preparatory Survey Team Yachiyo Engineering Co., Ltd.

Subject: The 2<sup>nd</sup> Preparatory Survey on the Project for Reinforcement of Power Distribution in Zanzibar Island in the United Republic of Tanzania

Re: Environmental Impact of the Project for Reinforcement of Power Distribution

The Screening Report of the Project for Reinforcement of Power Distribution mentions that this Project is not anticipated posing serious environmental damage as the new distribution line is going to be installed within buffer distance of 30m of the existing line. Therefore, the new distribution line shall have no serious environmental impact against wild birds and other creatures in Zanzibar.

Sincerely Yours,

(Ali J. Hamad) Director Department of Environment The United Republic of Tanzania

ZANZIBAR	ELECTRICITY	CORPORATION
	SAR ELECTRY	Head Office: P.O.Box: 235,
Dur Ref:	700	Zanzibar, Tanzania
Enguries 024 2238321	LEUU	Tel: +255 24 230237/8 Tel: +255 774 334455

(3) Letter of acknowledgement concerning environmental impact against wild birds

Emergency, 024ZECO/CONF.1/JICA/VOL.1/39

Kiyofusa Tanaka, Chief Consultant, JICA Preparatory Survey Team, Yachiyo Engineering Co., Ltd. Japan.

SUBJECT: THE 2nd PREPARATORY SURVEY ON THE PROJECT FOR REINFORCEMENT OF POWER DISTRIBUTION IN ZANZIBAR ISLAND IN THE UNITED REPUBLIC OF TANZANIA

Fax: +255 24 2231906 Email: zeco\_znz@hotmail.com

20<sup>th</sup> OCTOBER, 2010

### RE: ENVIRONMENTAL IMPACT OF THE PROJECT FOR REINFORCEMENT OF POWER DISTRIBUTION IN ZANZIBAR

The screening report of the Project for Reinforcement of Power Distribution mentions that this Project is not anticipated posing serious environmental demage as the new distribution line is going to be installed within buffer distance of 30m of the existing line.

Therefore, the new distribution line shall have no serious environment impact against wild birds and other creatures in Zanzibar.

Sincerely yours,

Hassan A. Mbarouk Acting General Manager, Zanzibar Electricity Corporation, Zanzibar.

> All correspondence should be addressed to the General Manager "We deserve to serve you better, while you ensure to settle your electricity bill before due date"

(4) Letter of Confirmations of Components of the Procurement of construction vehicles, tools and materials



## YACHIYO ENGINEERING CO., LTD.

Consulting Engineers & Architects Head Office: 18-12, Nishiochiai 2-chome, Shinjuku-ku, Tokyo, 161-8575 Japan Tel: +81-3-5906-0180 Fax: +81-3-5906-0821

Date: 22nd February, 2011

Mr. Hassan A. Mbarouk Acting General Manager Zanzibar Electricity Corporation (ZECO)

Project: The Project for the Reinforcement of Power Distribution in Zanzibar Island in the United of Republic of Tanzania

Subject: Confirmation of Components of the Procurement of construction vehicles, tools and materials for distribution lines

In response to the letter issued by ZECO dated of 28<sup>th</sup> January 2011 (ZECO/CONF.1/JICA/VOL.1/50) regarding the priority of components in the item (7) "Procurement of construction vehicles, tools and materials for distribution lines," which is mentioned in the Minutes of Discussion (M/D) on the 3<sup>rd</sup> Preparatory Survey, the JICA Study Team (hereinafter referred to as "the Team") hereby informs ZECO of the final components of item (7) selected by the Japanese side. The necessity and urgency of the components were examined among the Ministry of Foreign Affaires, JICA Headquarter and the Team.

As a result of discussion considering the limitation of the Project budget, the component of Item (7) shall be selected as follow.

- 1. Components item (7) to be procured
  - 33 kV auto-recloser
    4 sets
    Digger and pole erector truck
    1 vehicle
    Truck with cranes (7 tons)
    1 vehicle
- 2. Reasons of selection

According to the letter from ZECO, load break switches (LBS) for 33 kV and 11 kV overhead distribution line are categorized as the third priority, and the Team



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understood the importance of the LBS. However, the Team considers that maintenance tools and vehicles, such as a truck with crane, are indispensable for maintaining the 33 kV distribution lines which will be constructed in the Project and for implementing the works to be undertaken by Zanzibar side. Comparing the necessity and the importance of LBS and a construction vehicle, LBSs seem less important than construction vehicles. In addition, the function of LBSs which is aimed to isolate a faulty point from distribution networks shall be (partly) covered by auto-reclosers to be procured under the Project. Thus, the Team proposes that the following equipment should be included in the scope of the Project due to the reasons explained below.

#### 1) 33 kV auto-recloser

This equipment shall be installed near the terminal point of the 33 kV distribution lines which will be constructed in this Project by ZECO within the period of the Project. Under the present situations without sufficient equipment, such as auto-reclosers, a blackout extends widespread and it takes time for power line restorations. After the installation of the 33 kV auto re-closers, it will enable to decrease the range of blackout and to shorten the power outages.

2) Digger and pole erector truck and Truck with cranes (7 tons)

ZECO owns some construction vehicles, but it is difficult to obtain the spare parts in case of breakdowns because the vehicles were procured more than 15 years ago. Although the construction vehicles would be indispensable for the extension of the power distribution network in rural area, ZECO does not own enough number of vehicles. Moreover, a digger and pole erector truck is not owned by ZECO.

The recipient country will be required to carry out the relocation of transformers at the Fumba line immediately at the Project. Therefore, those vehicles are selected in order to facilitate the construction works by ZECO.



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#### 3. Confirmation of the proposal by the Team

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Please kindly confirm and accept our proposal described above. After the confirmation and acceptance of the proposal, ZECO is requested to submit an official letter attention to the chief consultant by the end of March 2011, which states that ZECO will surely install the procured 33 kV auto-reclosers within the Project period.

Sincerely yours,

雨中清

Kiyofusa TANAKA Chief Consultant JICA Study Team

#### (5) Letter of Confirmations of Components of the Procurement of construction vehicles, tools and materials



Head Office P.O.Box 235, Zanzibar, Tanzania 18: +35 24 25 23/18 10) 72357/4 334455 Fax #25524 2211906 Email: 23cc 2nz(@hotmai.com)

25 MARCH. 2011

KIYOFUSA TANAKA, CHIFF.CONSULTANT. YACHIYO ENGINEERING CO., LID TORYO. JAPAN.

ZECO/CONF.1/JICA/VOL.1/53

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### PROJECT: REINFORCEMENT OF POWER DISTRIBUTION IN ZANZIBAR PROJECT IN THE UNITED REPUBLIC OF TANZANIA - ZANZIBAR ISLAND

#### RE: CONFRMATION FOR THE INSTALLATION OF THE PROCURED MATERIALS FOR DISTRIBUTION LINES - 33kV AUTO-RECLOSER

Reterence made in the above-mentioned heading.

We agree with the selection made by your side based on oudget constrain, priority indicated by ZECO and its importance; and absolutely your selection covers our real stualion.

As a result of technical meeting with senior members of our distribution section within Technical Department, we would like to assure you that the installation of the selected components to be procured by the longnese side in the project mentioned above will be done in the project period.

Thanking you in advance,

Sincerely yours,

All correspondence should be addressed to the General Manuaer "We deserve to serve you bette, whoeyou ensure to settle your startingly bill before due date."

14

Hassan A. Mbarouk General Manager, Zanzibar Electricity Corporation, Zanzibar.

# **APPENDIX 8**

# **CERTIFICATE OF EIA**

### 8. Certificate of EIA

