$$
C-2
$$

パッケージ別単線図：

## 既設変電所からの延伸

## [Package 1-1]

## Legend

Power Source (Substation)
RGC
33kV DL
\#XX
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX
(0. XXXX

Voltage (P U.
Black: More than 0.95 Red : Less than 0.95

## [Package 1-2]



666 kW
(0. 996)

## Legend

| ) | : Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
| - | 33kV DL |
| \# XX | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 2-1]

## Legend

Power Source (Substation)
RGC
33kV DL
\# XX
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

The Study for Development of the Rural Electrification Master Plan in Zambia

## Drawing No.

Title

## [Package 2-2]



## Legend

Power Source (Substation)
RGC
33kV DL
\#XX
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.) Voltage (P. U.) Black: More than 0.95 Red : Less than 0.95
[Package 1-1]


| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 <br> Red : Less than 0.95 |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chilundu SS Feeder 1 (Package 1-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-2]



## Legend



Power Source (Substation)


RGC
: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

The Study for Development of the Rural Electrification Master Plan in Zambia

## Drawing No.

Title

## [Package 1-3]



## Legend



Power Source (Substation)


RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chilundu SS Feeder 1 (Package 1-3) |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chilundu SS <br> Feeder 1 (Package 1-4) |

[Package 2-1]



## [Package 2-2]



| Legend |  |
| :---: | :---: |
|  | : Power Source (Substation) |
| , | : RGC |
| - | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | : Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chilundu SS Feeder 2 (Package 2-2) |

## [Package 2-3]





|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chilundu SS Feeder 2 (Package 2-3) |

## [Package 2-4]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |

## [Package 2-5]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chilundu SS Feeder 2 (Package 2-5) |

## [Package 2-6]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Chilundu SS Feeder 2 (Package 2-6) |

[Package 2-7]



## [Package 2-8]




## [Package 1-1]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | : RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chinsali SS Feeder 1 (Package 1-1) |

## [Package 1-2]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chinsali SS Feeder 1 (Package 1-2) |

## [Package 1-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chinsali SS Feeder 1 (Package 1-3) |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGG |
| - | 33 kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |

[Package 2-1]


| \#1009 | \#977 |
| :---: | :---: |
| 5 km |  |
| $(\# 5)$ | 6 km |
| $(\# 17)$ |  |
| $(0.999)$ | 98 kW |
| $(0.997)$ |  |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chinsali SS Feeder 2 (Package 2-1) |
|  | Tokyo Electric Power Company |  |  |

[Package 2-2]
 \#830 36 km 161 kW (0.995)
 (0.998) (0.997)

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX ) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


| $\# 1085$ <br> $(\# 29)$ <br> 10 km | $\# 915$ <br> $(\# 10)$ | $\# 819$ <br> $(\# 9)$ |
| :---: | :---: | :---: |
| 64 kW | 13 km |  |
| $(0.995)$ | $(0.994)$ | 167 kW |
|  | $(0.993)$ |  |

[Package 2-3]


154 kW
(0.990)

| $\# 1085$ <br> $(\# 29)$ | $\# 915$ <br> $(\# 10)$ | $\# 819$ <br> 10 km <br> $(\# 9)$ |
| :---: | :---: | :---: |
| 64 kW | 13 km | 0 |
| $(0.994)$ | $(0.993)$ | $(0.992)$ |

## [Package 2-4]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
|  | RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX$)$ (0. XXX ) | Voltage (P.U.) |
|  | Black: More than 0.95 <br> Red : Less than 0.95 |

[^0]
## [Package 2-5]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
|  | : RGC |
| - | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 2-6]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

(0. 987)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chinsali SS Feeder 2 (Package 2-6) |

## [Package 3-1]



11 km 283 kW (0.998)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chinsali SS Feeder 3 (Package 3-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 3-2]



## [Package 3-3]



## [Package 3-4]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | ---: | :--- | :--- |
|  | TESCO | Title | DL System at Chinsali SS <br> Feeder 3 (Package 3-4) |

## [Package 1-1]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) Black: More than 0.95 |
|  | Red : Less than 0.95 |

The Study for Development of the Rural Electrification Master Plan in Zambia Drawing No. Title

## [Package 1-2]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
|  | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 1-3]



## Legend



Power Source (Substation)
RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chipata SS Feeder 1 (Package 1-3) |

## [Package 1-4]



## Legend



Power Source (Substation)
RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chipata SS Feeder 1 (Package 1-4) |
|  | $8_{\text {tepro }}$ Tokyo Electric Power Company |  |  |

## [Package 1-5]



## Legend

Power Source (Substation)
RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Chipata SS Feeder 1 (Package 1-5) |

## [Package 1-6]



## Legend



Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95


## [Package 2-1]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |
| :--- | ---: | :--- | :--- |
|  | Title | DL System at Chipata SS |

## [Package 2-2]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title <br> DL System at Chipata SS Feeder 2 (Package 2-2) |  |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-3]


[Package 1-1]


## [Package 1-2]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chipili SS Feeder 1 (Package 1-2) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chipili SS <br> Feeder 1 (Package 1-3) |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chipili SS <br> Feeder 1 (Package 1-4) |

## [Package 1-5]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| - | RGC |
| $\underline{0}$ | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chipili SS Feeder 1 (Package 1-5) |

[Package 2-1]


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| Co | Tokyo Electric Power Company |  | DL System at Chipili SS Feeder 2 (Package 2-1) |

## [Package 2-2]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Chipili SS Feeder 2 (Package 2-2) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Chipili SS <br> Feeder 2 (Package 2-3) |

## [Package 2-4]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Chipili SS Feeder 2 (Package 2-4) |

## Legend



Power Source (Substation)

RGC
: 33 kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

## [Package 1-1]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Coventry SS Feeder 1 (Package 1-1) |

## [Package 1-2]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title <br> DL System at Coventry SS Feeder 1 (Package 1-2) |  |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-3]


[Package 1-4]

## Legend



Power Source (Substation)
RGC
$\qquad$ 33 kV DL
Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
$X X \mathrm{~km}$ : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.951 km
\#438
(\#8)
38 km
(0.999) 495 kW
(0. 991

10 km (\#5) 352 kW (0.984)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | 8 Tokyo Electric Power Company |  | DL System at Coventry SS <br> Feeder 1 (Package 1-4) |

## [Package 1-5]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Coventry SS Feeder 1 (Package 1-5) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-1]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \left(0 . X^{\prime} X X\right) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

[^1]|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | 8 Tokyo Electric Power Company |  | DL System at Fig Tree SS <br> Feeder 1 (Package 1-1) |

## [Package 1-2]



## [Package 1-3]



280 kW
(0.995)

| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Fig Tree SS Feeder 1 (Package 1-3) |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 Red : Less than 0.95 |



The Study for Development o the Rural Electrification Master Plan in Zambia Title

## [Package 1-5]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
| $\underline{0}$ | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


(0.972)

## [Package 1-6]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | : RGC |
| - | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 1-7]

## [Package 1-8]


\#677 280 kW (0. 989)
\#1167
(\#16)

43 kW
(0.990)
(\#17)

(0.990)
\#1017 \#903
(\#19) 11 km (\#8)
$83 \mathrm{~kW} \quad 135 \mathrm{~kW}$
(0.991) (0.990)

126 kW
(0.989)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Isoka SS <br> Feeder 1 (Package 1-1) |

## [Package 1-2]

| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



## [Package 1-3]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | : RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Isoka SS Feeder 1 (Package 1-3) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-1]

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | : RGC |
|  | 33kV DL |
| \# $x^{\text {x }}$ | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Isoka SS Feeder 2 (Package 2-1) |

[Package 2-2]


## Legend


: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95
[Package 2-3]


## Legend


: 33kV DL
\# XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95
[Package 2-4]

(0. 991)

## Legend

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


[Package 2-5]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 3-1]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \left(0 . X^{\prime} X X\right) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |


| _ | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Isoka SS <br> Feeder 3 (Package 3-1) |

## [Package 3-2]



## Legend



Power Source (Substation)

RGC

33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Isoka SS <br> Feeder 3 (Package 3-2) |

## [Package 1-1]


\#187
6 km

853 kW
(0.994)

## [Package 1-2]



2 km


## [Package 1-3]


\#491
19 km (\#8)
431 kW
(0.993)

10 km

| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
|  | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kabwe SS Feeder 1 (Package 1-3) |

## [Package 1-4]



10 km
10 km
10 km
10 km

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| , | : RGC |
| - | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kabwe SS <br> Feeder 1 (Package 1-4) |

## [Package 1-5]


(0.998)


| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
| $\underline{0}$ | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |

km (\#8)

431 kW
(0.991)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kabwe SS Feeder 1 (Package 1-5) |

## [Package 1-6]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kabwe SS Feeder 1 (Package 1-6) |
|  | Tokyo Electric Power Company |  |  |

[Package 1-7]


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kabwe SS Feeder 1 (Package 1-7) |


| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
|  | : RGC |
| - | 33 kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## Legend

## [Package 2-1]



## [Package 2-2]

| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kabwe SS Feeder 2 (Package 2-2) |

## [Package 2-3]



## [Package 2-4]



## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Kabwe Ss <br> Feeder 2 (Package 2-4) |

## [Package 2-5]



## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Kabwe Ss <br> Feeder 2 (Package 2-5) |

[Package 2-6]


Drawing No.

## [Package 1-1]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kafue Town SS Feeder 1 (Package 1-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-2]


\#344
7 km

509 kW
(0. 998)
\#701
17 km (\#5)
-
240 kW
(0. 998)

## Legend

Power Source (Substation)

RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

| ZESCO | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |
| :--- | :--- | :--- | :--- |
|  | Title | DL System at Kafue Town Ss <br> Feeder 1 (Package 1-2) |

## [Package 1-3]



## Legend

Power Source (Substation)


RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kafue Town S Feeder 1 (Package 1-3) |

## [Package 1-1]

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kalabo SS Feeder 1 (Package 1-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-2]

| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | : RGC |
| - | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |



| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kalabo SS Feeder 1 (Package 1-2) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-3]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kalabo SS Feeder 1 (Package 1-3) |

## [Package 1-4]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| Co | Tokyo Electric Power Company |  | DL System at Kalabo SS <br> Feeder 1 (Package 1-4) |

## [Package 1-5]

## Legend



Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95


## [Package 1-6]

## Legend

| , | : Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


[Package 1-7]

## Legend

|  | : Power Source (Substation) |
| :---: | :---: |
| , | : RGC |
|  | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kalabo SS <br> Feeder 1 (Package 1-7) |

[Package 2-1]

| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kalabo SS Feeder 2 (Package 2-1) |

[Package 2-2]

| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| $\begin{gathered} \text { \#1144 } \\ 14 \mathrm{~km} \stackrel{\# 16)}{ } \\ 5 \mathrm{~km} \end{gathered}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 49 \mathrm{~kW} \\ & (0.988) \end{aligned}$ |  | $11 \mathrm{~km}{ }^{\# \# 576} \text { (\#24) }$ | $\begin{gathered} \# 514 \\ \mathrm{~km} \quad(\# 25) \end{gathered}$ | \#482 <br> (\#18) | $\begin{gathered} \# 245 \\ \text { km }(\# 20) \end{gathered}$ |  | $\begin{aligned} & \# 517 \\ & (\# 32) \end{aligned}$ |
|  |  | $\begin{aligned} & 325 \mathrm{~kW} \\ & (0.974) \end{aligned}$ | $\begin{aligned} & 385 \mathrm{~kW} \\ & (0.966) \end{aligned}$ | $\begin{aligned} & 445 \mathrm{~kW} \\ & (0.960) \end{aligned}$ | $\begin{aligned} & 665 \mathrm{~kW} \\ & (0.954) \end{aligned}$ |  | $\begin{aligned} & 80 \mathrm{~kW} \\ & 0.953) \end{aligned}$ |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kalabo SS <br> Feeder 2 (Package 2-2) |

[Package 2-3]


| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 3-1]

| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kalabo SS Feeder 3 (Package 3-1) |

## [Package 3-2]



|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :--- | :--- |
|  | TESCO | Title | DL System at Kalabo SS <br> Zeeder 3 (Package 3-2) |

## [Package 3-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | 8 Tokyo Electric Power Company |  | DL System at Kalabo SS <br> Feeder 3 (Package 3-3) |

## Legend

|  | : Power Source (Substation) |
| :---: | :---: |
| , | : RGC |
|  | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 3-4]



## [Package 3-5]


[Package 3-6]


The Study for Development of
the Rural Electrification Master Plan in Zambia


Drawing No.
Title
[Package 3-7]


## Legend

|  | : Power Source (Substation) |
| :---: | :---: |
| , | RGC |
|  | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| Zesco | Tokyo Electric Power Company |  | DL System at Kalabo SS Feeder 3 (Package 3-7) |

## [Package 3-8]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kalabo SS Feeder 3 (Package 3-8) |
|  | Tokyo Electric Power Company |  |  |

[Package 1-1]


| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 1-2]



## Legend



Power Source (Substation)

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kansunswa SS Feeder 1 (Package 1-2) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-3]



4 km


2 km

\#29
4 km
(\#6)


Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | ---: | :--- | :--- |
|  | TESCO | Title | DL System at Kansunswa SS <br> Zeeder 1 (Package 1-3) |

## [Package 1-4]





## [Package 1-5]




|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kansunswa SS Feeder 1 (Package 1-5) |

## [Package 1-6]



## Legend

| ) | : Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| $\bigcirc$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

(0.961)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kansunswa SS Feeder 1 (Package 1-6) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-7]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Kansunswa SS Feeder 1 (Package 1-7) |

## [Package 1-8]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Kansunswa SS Feeder 1 (Package 1-8) |

## [Package 1-1]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| $\bigcirc$ | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

4 km

## [Package 1-2]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| - | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

4 km


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kaoma SS <br> Feeder 1 (Package 1-2) |

[Package 1-3]


## Legend

- Power Source (Substation)
RGC
: 33 kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

7 km


9 km


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :--- | :--- | :--- |
|  |  | Title | DL System at Kaoma SS <br> ZESCO |
|  |  |  |  |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
|  | : RGC |
| - | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kaoma SS Feeder 1 (Package 1-4) |

## [Package 1-5]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | RGC |
| $=-$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX ) | Black: More than 0.95 |
|  | Red : Less than 0.95 |






[Package 2-1]

[Package 2-2]
$\begin{array}{cc}\begin{array}{c}\# 887 \\ (\# 37) \\ 15 \mathrm{~km} \\ 12 \\ 12 \mathrm{~km}^{(\# 31)} \\ (0.986)\end{array} & (0.975)\end{array}$
\#153
28 km
(\#40)

948 kW
(0.963)

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| $\bigcirc$ | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

The Study for Development of The Study for Development of
the Rural Electrification Master Plan in Zambia

## Drawing No.

[Package 2-3]
$\begin{array}{cc}\begin{array}{c}\# 887 \\ (\# 37)\end{array} & \begin{array}{c}\# 1121 \\ \left(\# 2 m^{(\# 31)}\right.\end{array} \\ 141 \mathrm{~kW} & 54 \mathrm{~kW} \\ (0.991) & (0.984)\end{array}$

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| - | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kaoma SS Feeder 2 (Package 2-3) |
|  | Tokyo Electric Power Company |  |  |

[Package 2-4]


| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kaoma SS Feeder 2 (Package 2-4) |
|  | Tokyo Electric Power Company |  |  |

[Package 2-5]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

[Package 2-6]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

The Study for Development of The Study for Development of
the Rural Electrification Master Plan in Zambia

## Drawing No.

Title
[Package 2-7]


## Legend

|  | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

(
[Package 3-1]
.


500 kW 645 kW
(0.964) (0.955)

## [Package 3-2]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | 8 Tokyo Electric Power Company |  | DL System at Kaoma SS Feeder 3 (Package 3-2) |

[Package 3-3]


## Legend

Power Source (Substation)


RGC
33kV DL
Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kaoma SS <br> Feeder 3 (Package 3-3) |

## [Package 4-1]

| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kaoma SS Feeder 4 (Package 4-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 4-2]




## [Package 4-3]




## [Package 1-1]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |



## [Package 1-2]



| Legend |  |
| :---: | :---: |
|  | : Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 1 (Package 1-2) |

## [Package 1-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 1 (Package 1-3) |

## [Package 1-4]



## [Package 1-5]



## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | $8_{\text {tepro }}$ Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 1 (Package 1-5) |

## [Package 1-6]



## Legend

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 1 (Package 1-6) |

[Package 1-7]

(0.976)

## Legend

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 1 (Package 1-7) |

## [Package 2-1]


(0. 961)

| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| , | RGC |
|  | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 2-2]



## Legend

Power Source (Substation)
RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Kapiri Mposhi SS Feeder 2 (Package 2-2) |

## [Package 1-1]

| Legend |  |
| :---: | :---: |
|  | : Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | Title |  |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kasama SS <br> Feeder 1 (Package 1-1) |

## [Package 1-2]

26 km
(\#3)
8 km
529 kW
(0.985)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kasama SS Feeder 1 (Package 1-2) |

[Package 1-3]


| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 Red: Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kasama SS Feeder 1 (Package 1-3) |

## [Package 1-4]


44 km
19 km
[Package 1-5]


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Kasama SS <br> Feeder 1 (Package 1-5) |

## [Package 1-6]



[Package 1-7]


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Kasama SS <br> Feeder 1 (Package 1-7) |

## [Package 1-8]



## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kasama SS <br> Feeder 1 (Package 1-8) |

[Package 1-9]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| CO | Tokyo Electric Power Company |  | DL System at Kasama SS Feeder 1 (Package 1-9) |

[Package 1-10]


## Legend

|  | : Power Source (Substation) |
| :---: | :---: |
| , | RGC |
|  | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | $8_{\text {TEPro }}$ Tokyo Electric Power Company |  | DL System at Kasama SS <br> Feeder 1 (Package 1-10) |

[Package 1-11]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | $8_{\text {TEPLо }}$ Tokyo Electric Power Company |  | DL System at Kasama SS <br> Feeder 1 (Package 1-11) |

[Package 1-12]


## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
|  | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | $8_{\text {TEPLо }}$ Tokyo Electric Power Company |  | DL System at Kasama SS <br> Feeder 1 (Package 1-12) |

## [Package 2-1]



## [Package 2-2]



## [Package 2-3]





## [Package 2-4]



## [Package 2-5]



## [Package 1-1]



## [Package 1-2]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

## Legend

## [Package 1-3]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
|  | : RGC |
|  | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. $\mathrm{X} \times \mathrm{X}$ ) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kasempa SS Feeder 1 (Package 1-3) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-4]




|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kasempa SS Feeder 1 (Package 1-4) |

## [Package 1-5]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | RGC |
| - | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kasempa SS Feeder 1 (Package 1-5) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-6]



| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kasempa SS Feeder 1 (Package 1-6) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-7]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Kasempa SS Feeder 1 (Package 1-7) |

## [Package 1-8]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kasempa SS <br> Feeder 1 (Package 1-8) |

## [Package 2-1]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
|  | RGC |
| $\square$ | 33 kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kasempa SS Feeder 2 (Package 2-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-2]



| Legend |  |
| :---: | :---: |
|  | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \#XX | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title <br> DL System at Kasempa SS Feeder 2 (Package 2-2) |  |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-3]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
|  | : RGC |
| $\underline{-1}$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | : Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title <br> DL System at Kasempa SS Feeder 2 (Package 2-3) |  |
|  | $8_{\text {tepro }}$ Tokyo Electric Power Company |  |  |

## [Package 2-4]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | : RGC |
| $\underline{-1}$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | : Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

[^2]
## [Package 2-5]



| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
|  | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

[^3]
## [Package 1-1]

| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |



## [Package 1-2]




| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| - | : RGC |
| $\square$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P. U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 1-3]



The Study for Development of the Rural Electrification Master Plan in Zambia

## Drawing No.

## [Package 1-4]



## Legend

## Power Source (Substation)



RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kawambwa Tea Feeder 1 (Package 1-4) |

## [Package 1-5]



## Legend

## Power Source (Substation)



RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kawambwa Tea Feeder 1 (Package 1-5) |

## [Package 1-6]



## Legend

## Power Source (Substation)



RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kawambwa Tea Feeder 1 (Package 1-6) |

[Package 1-7]


## Legend

## Power Source (Substation)



RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kawambwa Tea SS Feeder 1 (Package 1-7) |

## [Package 1-8]



## Legend

## Power Source (Substation)

RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kawambwa Tea SS Feeder 1 (Package 1-8) |

## [Package 1-1]

8 km


## Legend



Power Source (Substation)

RGC
$\longrightarrow$ : 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95


## [Package 1-2]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| _ | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kitwe SS Feeder 1 (Package 1-2) |

## [Package 1-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Kitwe SS <br> Feeder 1 (Package 1-3) |

## [Package 1-4]



## Legend

Power Source (Substation)


RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

[Package 2-1]13 km

13 km \begin{tabular}{cc}

| $\# 524$ |
| :---: |
| $(\# 40)$ | \& | $\# 295$ |
| :---: |
|  |
| 374 km |
| $(\# 42)$ | <br>

$(0.989)$ \& 569 kW <br>
$(0.987)$
\end{tabular}

| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Kitwe SS Feeder 2 (Package 2-1) |
|  | Tokyo Electric Power Company |  |  |

[Package 2-2]

[Package 2-3]


## [Package 2-4]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | 8 Tokyo Electric Power Company |  | DL System at Kitwe SS <br> Feeder 2 (Package 2-4) |

## [Package 2-5]




## [Package 3-1]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

The Study for Development of
Drawing No. the Rural Electrification Master Plan in Zambia Title
[Package 3-2]



4 km


The Study for Development of
Drawing No. the Rural Electrification Master Plan in Zambia
[Package 3-3]


## Legend

## Power Source (Substation)

RGC
33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)

Black: More than 0.95 Red : Less than 0.95
$\# 615$
$(\# 6)$

283 kW
(0.965)


The Study for Development of
the Rural Electrification Master Plan in Zambia
Drawing No.
Title
[Package 3-4]


## Legend



Power Source (Substation)
RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)

Black: More than 0.95 Red : Less than 0.95



The Study for Development of
the Rural Electrification Master Plan in Zambia
Drawing No.
Title
[Package 3-5]


| Legend |  |
| :---: | :---: |
| , | : Power Source (Substation) |
| ) | RGC |
| $\underline{-1}$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 | Less than 0.95



The Study for Development o
the Rural Electrification Master Plan in Zambia
Drawing No.
Title
[Package 3-6]

[Package 3-7]


## Legend



Power Source (Substation)
RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95


| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Kitwe SS Feeder 3 (Package 3-7) |



## Legend

Power Source (Substation)
RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P.U.)

Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Kitwe SS <br> Feeder 3 (Package 3-8) |



## [Package 1-1]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 <br> Red : Less than 0.95 |

12 km

## [Package 1-2]

\#500
17 km (\#6)
412 kW
(0.993)

15 km

## Legend

- Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
$X X \mathrm{~km}$ : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

12 km

| \#587 | \#736 | \#335 |
| :---: | :---: | :---: |
| 16 km (\#7) | (\#5) | (\#6) |
| 314 kW | 227 kW | 514 kW |
| (0.978) | (0.975) | (0.972) |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Leopard's Hill SS <br> Feeder 1 (Package 1-2) |

[Package 1-3]
\#500
(\#6)
17 km
412 kW
(0.993)

15 km

## Legend

- Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
$X X \mathrm{~km}$ : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Leopard's Hill SS Feeder 1 (Package 1-3) |

[Package 1-4]
\#500
(\#6)
17 km
412 kW
(0. 992)

15 km

## Legend

| ) | : Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| $\underline{-1}$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| (\#XX) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

12 km








[Package 1-1]
\#130
(\#3)
4 km

1, 080 kW
(0.989)

## Legend

Power Source (Substation)

RGC
33 kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
$X X \mathrm{~km}$ : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| CO | Tokyo Electric Power Company |  | DL System at Luano SS Feeder 1 (Package 1-1) |

## [Package 1-2]



## [Package 1-3]



## Legend

Power Source (Substation)
RGC
33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luano SS <br> Feeder 1 (Package 1-3) |

## [Package 1-4]



## Legend

|  | Power Source (Substation) |
| :---: | :---: |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kw | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Luano SS Feeder 1 (Package 1-4) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-1]

| Legend |  |
| :---: | :---: |
|  | : Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |

The Study for Development of the Rural Electrification Master Plan in Zambia

Drawing No.
Title
Tokyo Electric Power Company

## [Package 2-2]

\#864 ..... (\#1)$151 \mathrm{~kW} \quad 1,070 \mathrm{~kW}$(0.997) (0.993)

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| - | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 Red: Less than 0.95 |

## [Package 2-3]



## Legend

Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
$X X \mathrm{~km}$ : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | $\begin{aligned} & \text { Black: More than } 0.95 \\ & \text { Red : Less than } 0.95 \end{aligned}$ |

## [Package 2-4]



## Legend

- : Power Source (Substation)

RGC
$\longrightarrow$ : 33kV DL
\#XX : Priority by Consultant
(\#XX) : Priority by Each District
XXX kW : Demand
XX km : Distance between PS and RGC
(O. XXX) : Voltage (P.U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luano SS <br> Feeder 2 (Package 2-4) |

## [Package 2-5]



## Legend



Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luano SS Feeder 2 (Package 2-5) |

## [Package 2-6]



## Legend



Power Source (Substation)

RGC
: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luano SS Feeder 2 (Package 2-6) |



| , | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Lundazi SS Feeder 1 (Package 1-1) |
|  | Tokyo Electric Power Company |  |  |



| _ | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | Tokyo Electric Power Company |  | DL System at Lundazi SS Feeder 1 (Package 1-2) |



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| , | RGC |
| $\underline{-1}$ | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \\ & \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |

## [Package 2-1]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Lundazi SS Feeder 2 (Package 2-1) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-2]

| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| , | RGC |
| - | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX$)$ | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |

5 km
\#547
13 km (\#
$\longrightarrow 35$
352 kW (0.975)


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Lundazi SS Feeder 2 (Package 2-2) |

## [Package 2-3]



## Legend

|  | Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| $\square$ | : 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| (0. XXX ) | Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Lundazi SS Feeder 2 (Package 2-3) |

## [Package 2-4]



|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |
| :---: | :---: | :--- | :--- |
|  | Title | DL System at Lundazi SS |

## [Package 2-5]



| 927 kW <br> $(0.955)$ | $\# 743$ <br> $(\# 8)$ | $\# 218$ <br> $(\# \mathrm{~km}$ |
| :---: | :---: | :---: |
|  | 223 kW <br> $(0.953)$ | 729 kW <br> $(0.951)$ |


| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |
| :--- | ---: | :--- | :--- |
|  | Title | DL System at Lundazi SS |

## [Package 2-6]



## Legend

| ) | Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| - | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | : Distance between PS and RGC |
| $\begin{aligned} & (0 . X X X) \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) |
|  | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |
| :---: | :---: | :--- | :--- |
|  | Title | DL System at Lundazi SS |

[Package 2-7]


## Legend

|  | : Power Source (Substation) |
| :---: | :---: |
| ) | : RGC |
| $\square$ | : 33kV DL |
| \# X X | : Priority by Consultant |
| ( \# X X ) | : Priority by Each District |
| XXX kW | : Demand |
| XX km | : Distance between PS and RGC |
| (0. XXX ) | : Voltage (P.U.) |
| (0. XXX) | Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | 8 Tokyo Electric Power Company |  | DL System at Lundazi SS <br> Feeder 2 (Package 2-7) |

## [Package 3-1]

| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Lundazi SS Feeder 3 (Package 3-1) |

## [Package 3-2]



## Legend


: 33kV DL
\#XX : Priority by Consultant (\#XX) : Priority by Each District XXX kW : Demand
XX km : Distance between PS and RGC
(0. XXX) : Voltage (P. U.)
(0. XXX) Black: More than 0.95 Red : Less than 0.95

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | 8 Tokyo Electric Power Company |  | DL System at Lundazi SS <br> Feeder 3 (Package 3-1) |

[Package 1-1]


The Study for Development the Rural Electrification Master Plan in Zambia

## Drawing No.

Title

## [Package 1-2]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |


| Con | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Luwingu SS <br> Feeder 1 (Package 1-2) |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-3]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title <br> DL System at Luwingu SS Feeder 1 (Package 1-3) |  |
|  | Tokyo Electric Power Company |  |  |

## [Package 1-4]



| Legend |  |
| :---: | :---: |
|  | Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title | DL System at Luwingu SS <br> Feeder 1 (Package 1-4) |
|  | Tokyo Electric Power Company |  |  |

## [Package 2-1]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luwingu SS Feeder 2 (Package 2-1) |

## [Package 2-2]



## [Package 2-3]



| Legend |  |
| :---: | :---: |
| , | Power Source (Substation) |
| ) | RGC |
| - | 33kV DL |
| \#XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \text { (0. XXX) } \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 095 |

## [Package 2-4]



| Legend |  |
| :---: | :---: |
| ) | Power Source (Substation) |
| ) | RGC |
|  | 33kV DL |
| \# XX | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & \left(0 . X^{\prime} X X\right) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 |
|  | Red : Less than 0.95 |

## [Package 2-5]



|  | The Study for Development of <br> the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :--- | :---: | :--- | :--- |
|  | ZESCO | Title | DL System at Luwingu SS <br> Feeder 2 (Package 2-5) |

## [Package 2-6]



## [Package 2-7]




1, 001 kW
500 kW
(0.955)

|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| zesco | Tokyo Electric Power Company |  | DL System at Luwingu SS Feeder 2 (Package 2-7) |

## [Package 3-1]



| Legend |  |
| :---: | :---: |
| ) | : Power Source (Substation) |
| , | RGC |
| - | 33kV DL |
| \# X X | Priority by Consultant |
| (\#XX) | Priority by Each District |
| XXX kW | Demand |
| XX km | Distance between PS and RGC |
| $\begin{aligned} & \text { (0. XXX) } \\ & (0 . X X X) \end{aligned}$ | Voltage (P.U.) <br> Black: More than 0.95 <br> Red : Less than 0.95 |


|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
| ZESCO | Tokyo Electric Power Company |  | DL System at Luwingu SS Feeder 3 (Package 3-1) |

## [Package 3-2]



|  | The Study for Development of the Rural Electrification Master Plan in Zambia | Drawing No. |  |
| :---: | :---: | :---: | :---: |
|  |  | Title |  |
|  | 8 Tokyo Electric Power Company |  | DL System at Luwingu SS Feeder 3 (Package 3-2) |

## [Package 3-3]





[^0]:    The Study for Development of
    the Rural Electrification Master Plan in Zambia
    Drawing No.
    Title

[^1]:    \#448
    18 km (\#1)
    478 kW
    50 km
    (0. 987)

[^2]:    The Study for Development of
    the Rural Electrification Master Plan in Zambia
    Drawing No.
    Title

[^3]:    The Study for Development
    the Rural Electrification Master Plan in Zambia
    Drawing No.
    Title

