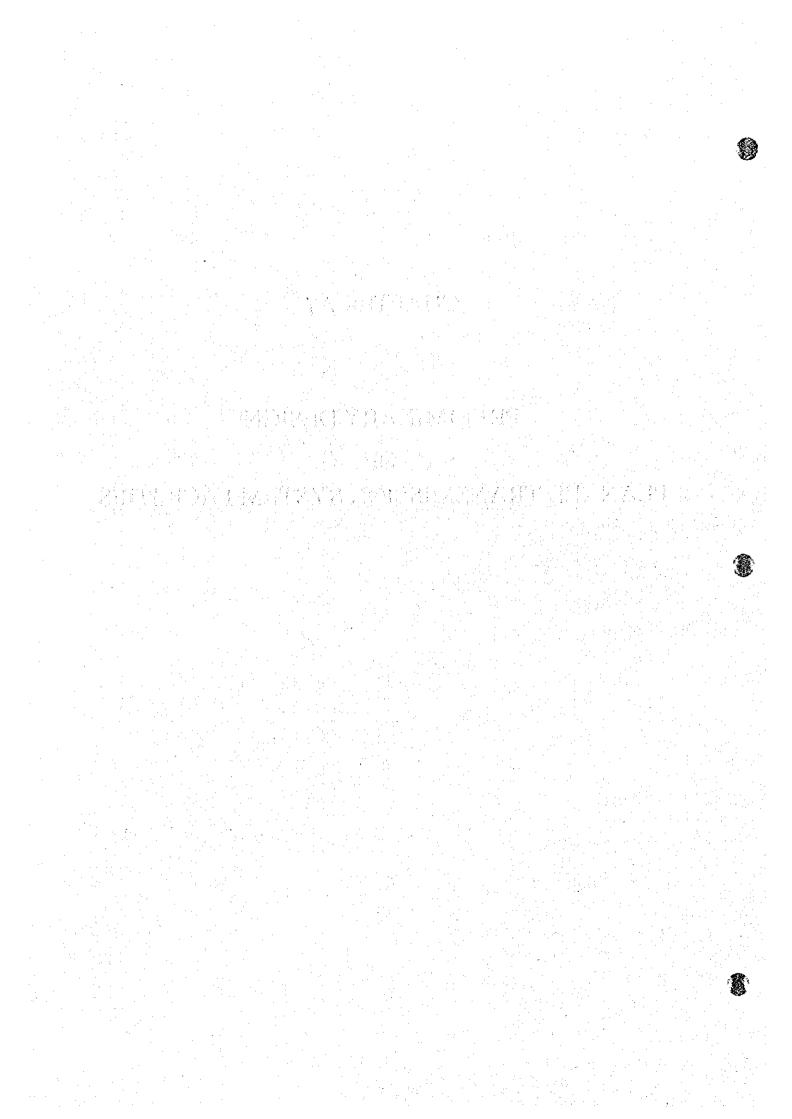
CHAPTER A7

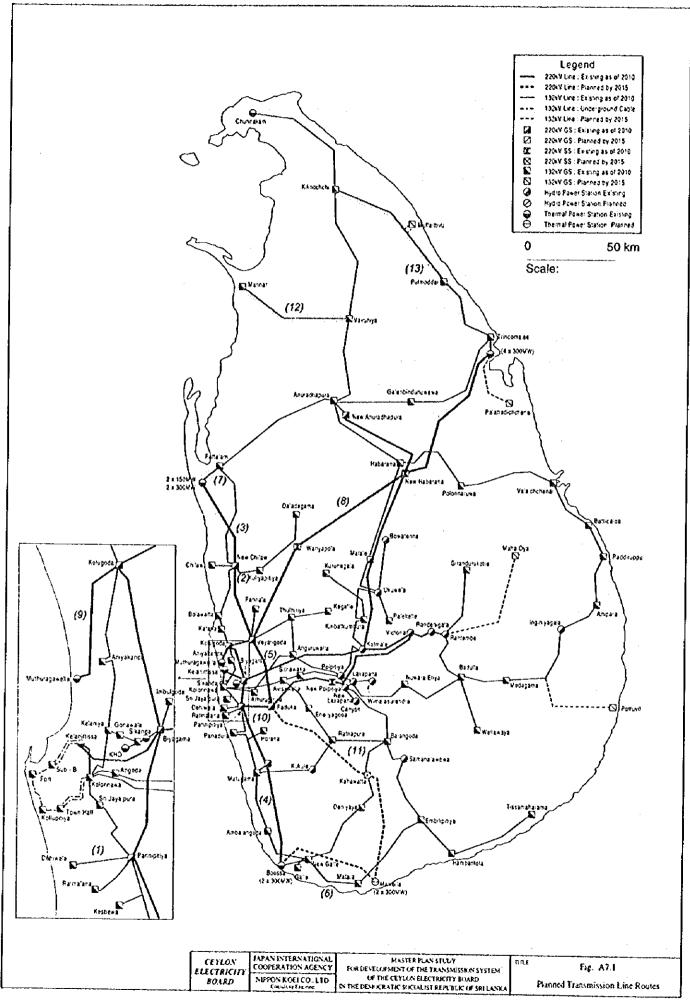
PRELIMINARY DESIGN OF PLANNED TRANSMISSION SYSTEM FACILITIES



Chapter A7 Preliminary Design of Planned Transmission System Facilities

A7.1 Transmission Line Routes

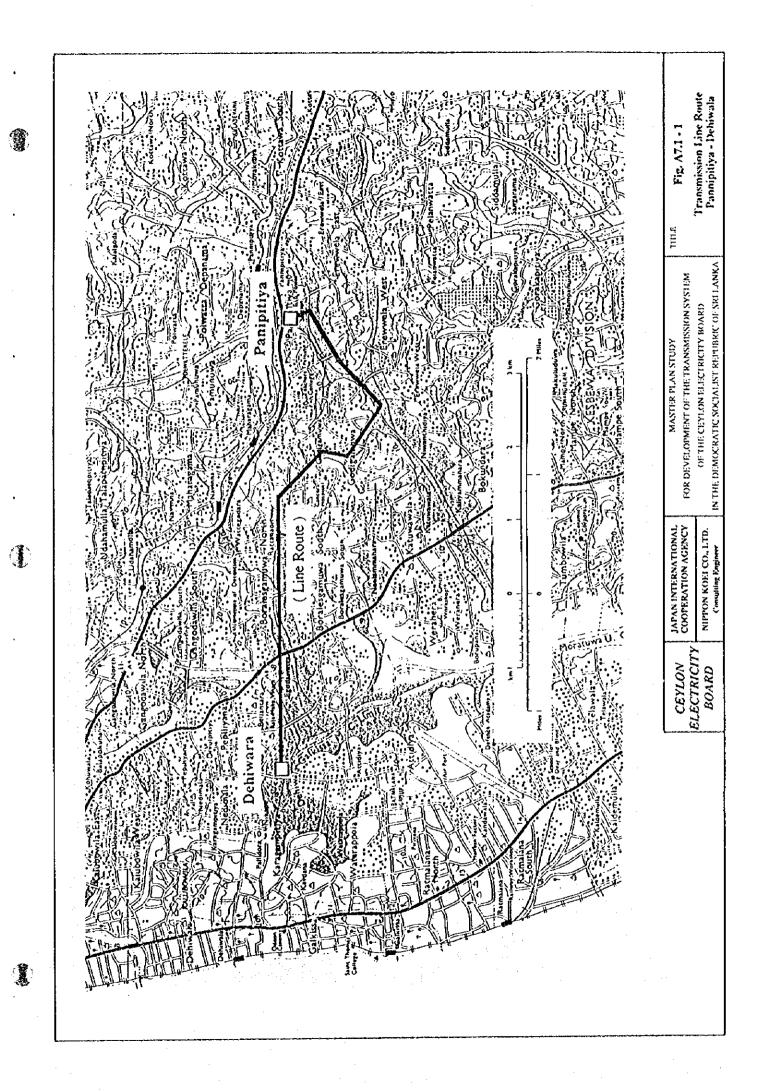
Ref. No.	Line Route Planned Transmission Line Routes		
Fig. 7.1			
Fig. 7.1 - 1	Pannipitiya	_	Dehiwala
Fig. 7.1 - 2	New Chilaw	_	Kuliyapitiya
Fig. 7.1 - 3	Puttalam PS		Veyangoda
Fig. 7.1 - 4	Pannipitiya	_	New Galle
Fig. 7.1 - 5	Veyangoda		New Padukka
Fig. 7.1 - 6	New Galle	· <u>-</u>	Matara
Fig. 7.1 - 7	Puttalam PS		Puttalam GS
Fig. 7.1 - 8	Trincomalee	-	Veyangoda
Fig. 7.1 - 9	Muthuragawella	-	Kotugoda
Fig. 7.1 - 10	Pannipitiya		New Padukka
Fig. 7.1 - 11	Ratnapura		Balangoda
Fig. 7.1 - 12	Vavunia	. - ·	Mannar
Fig. 7.1 - 13	Trincomalee		Kilinochchi

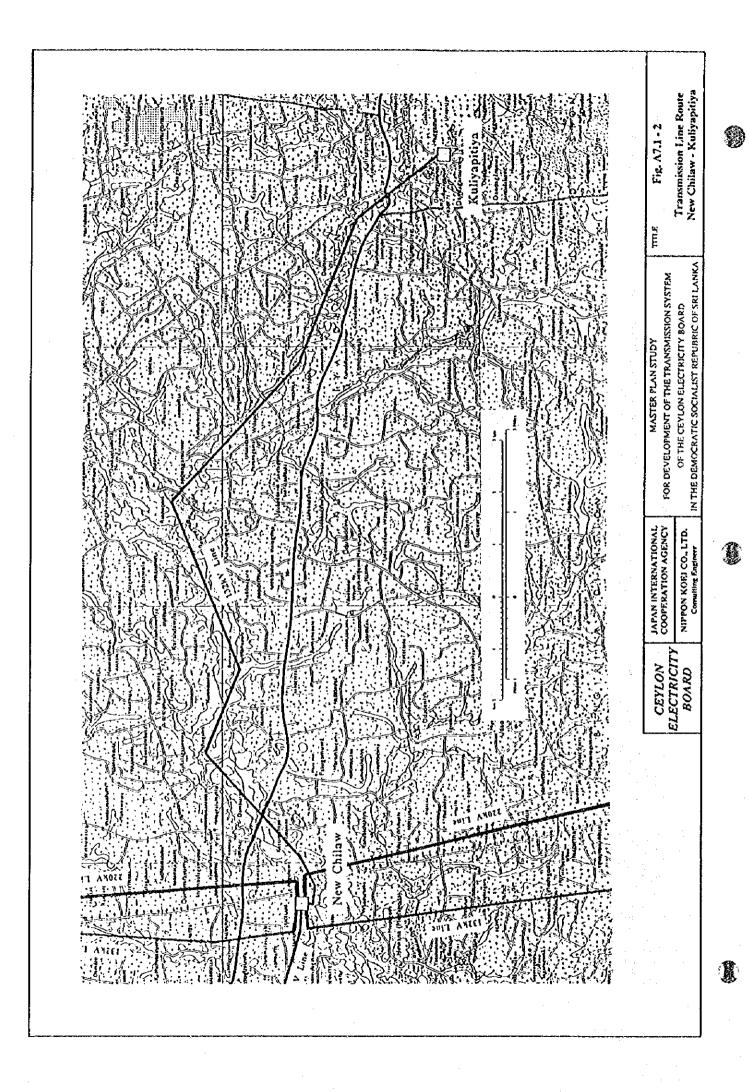


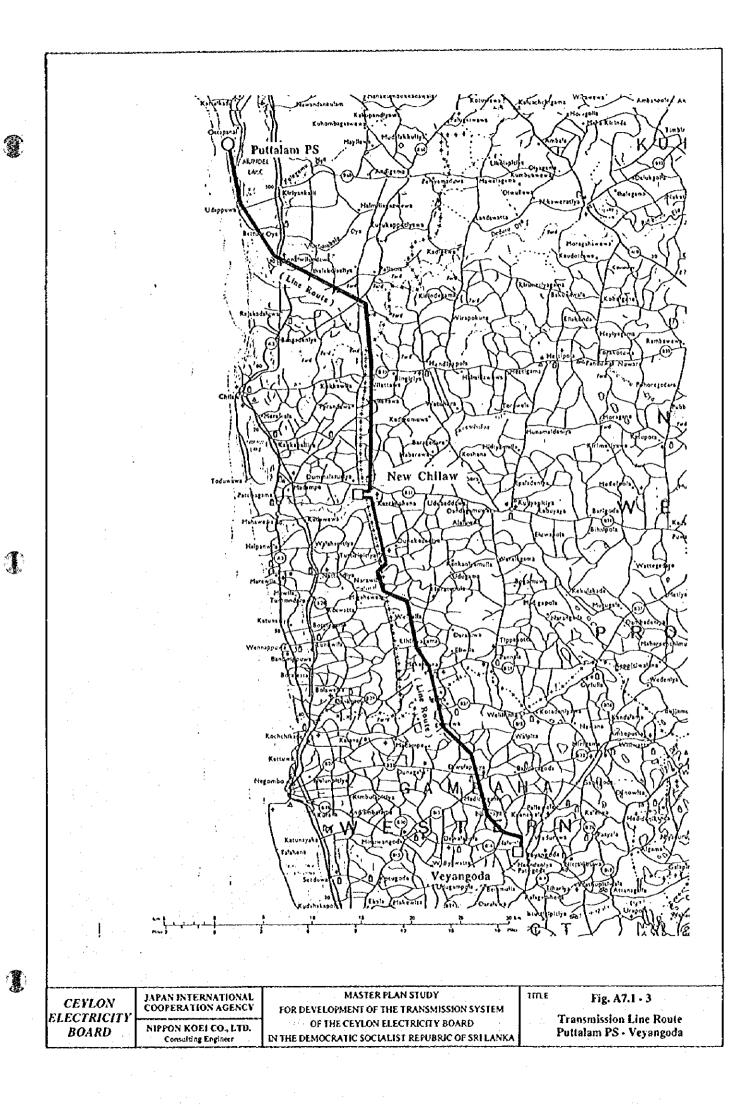


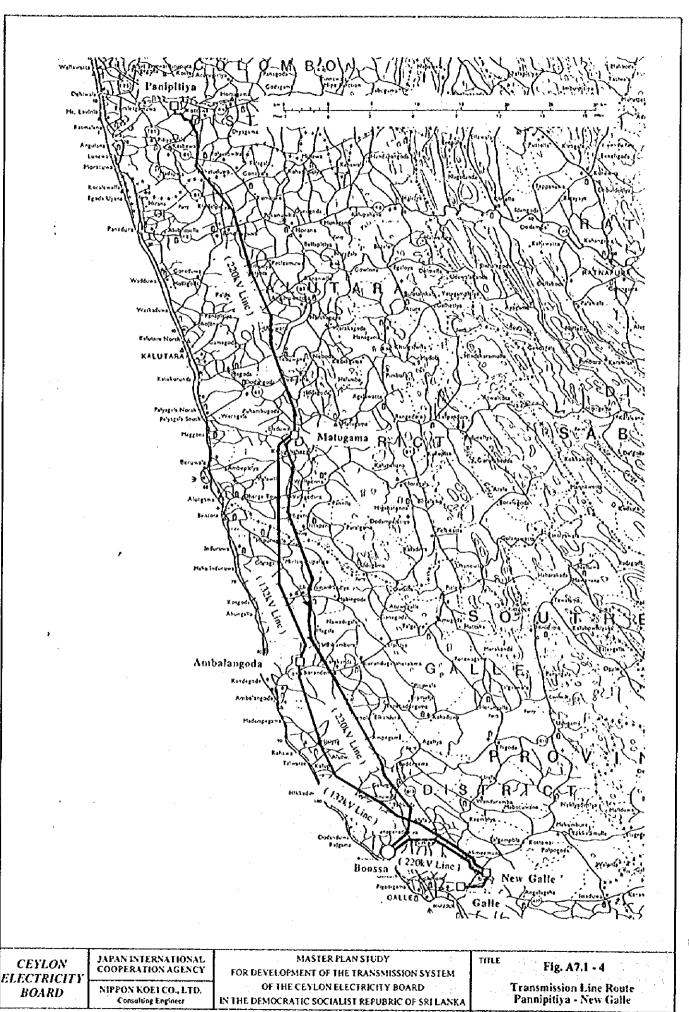


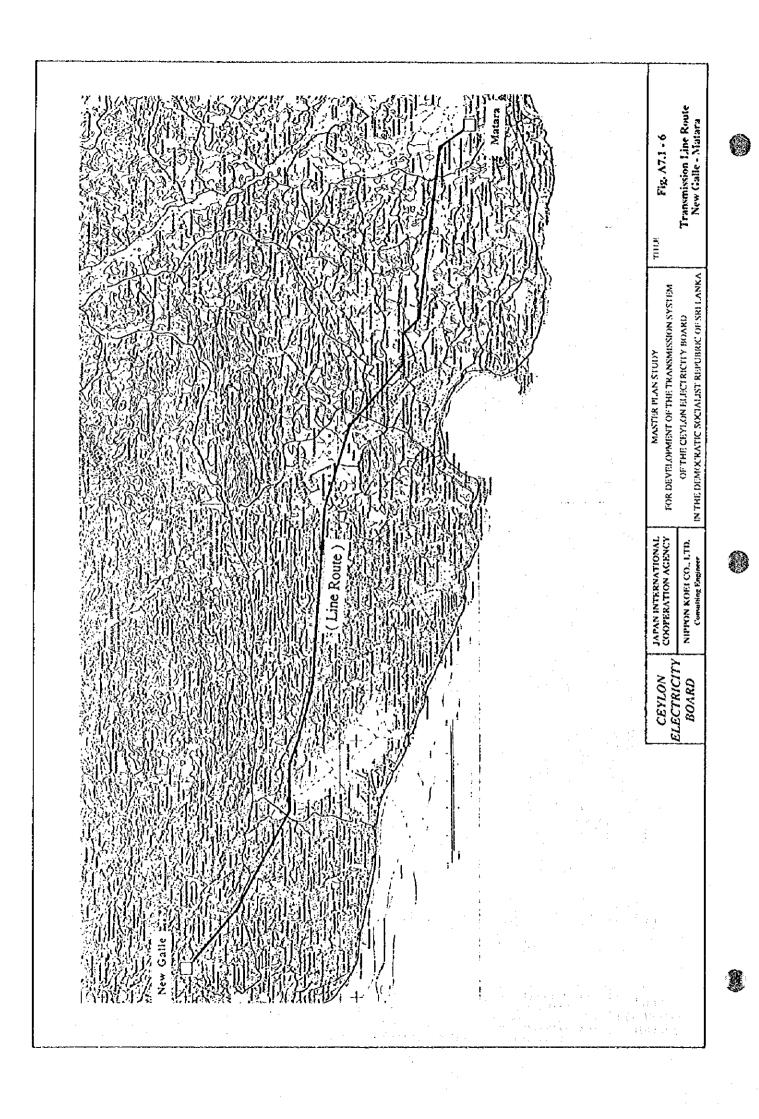


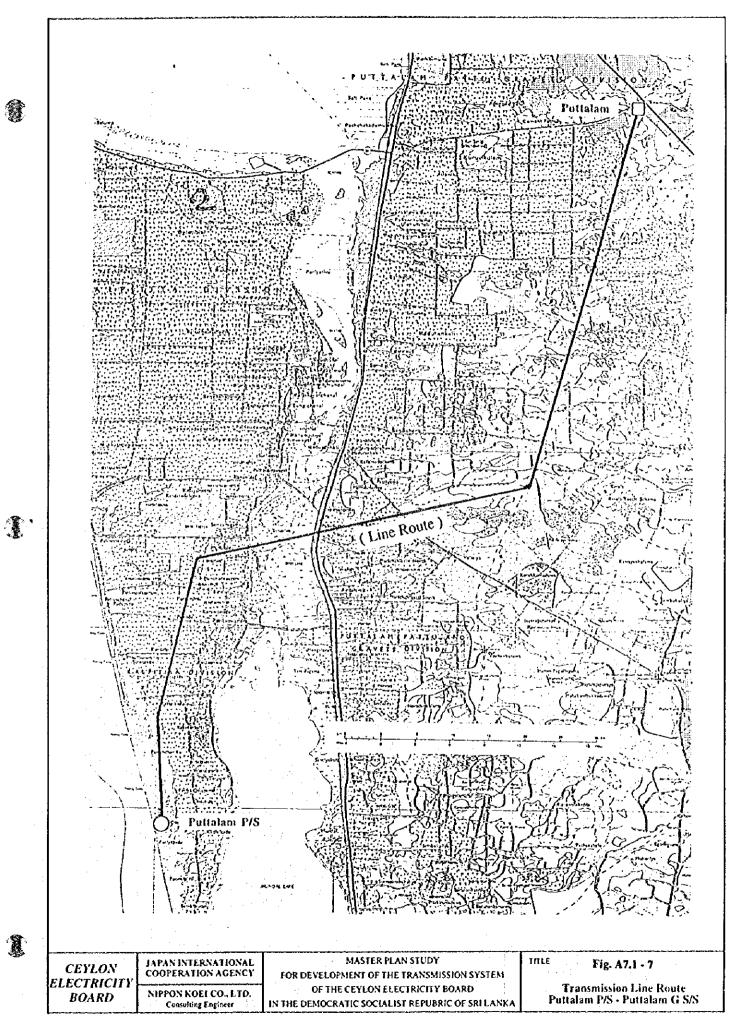


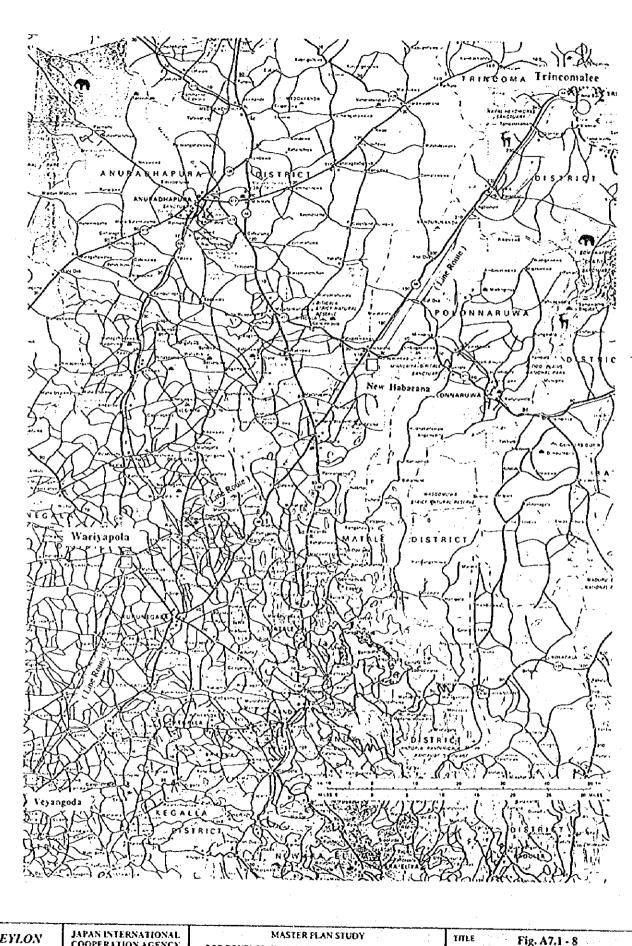












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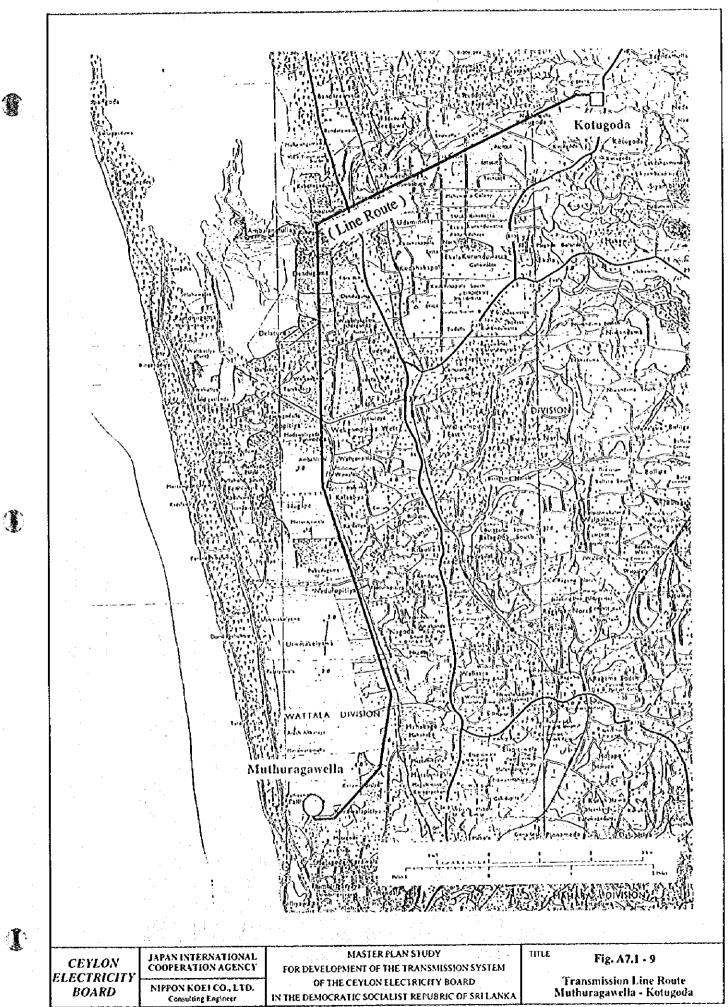
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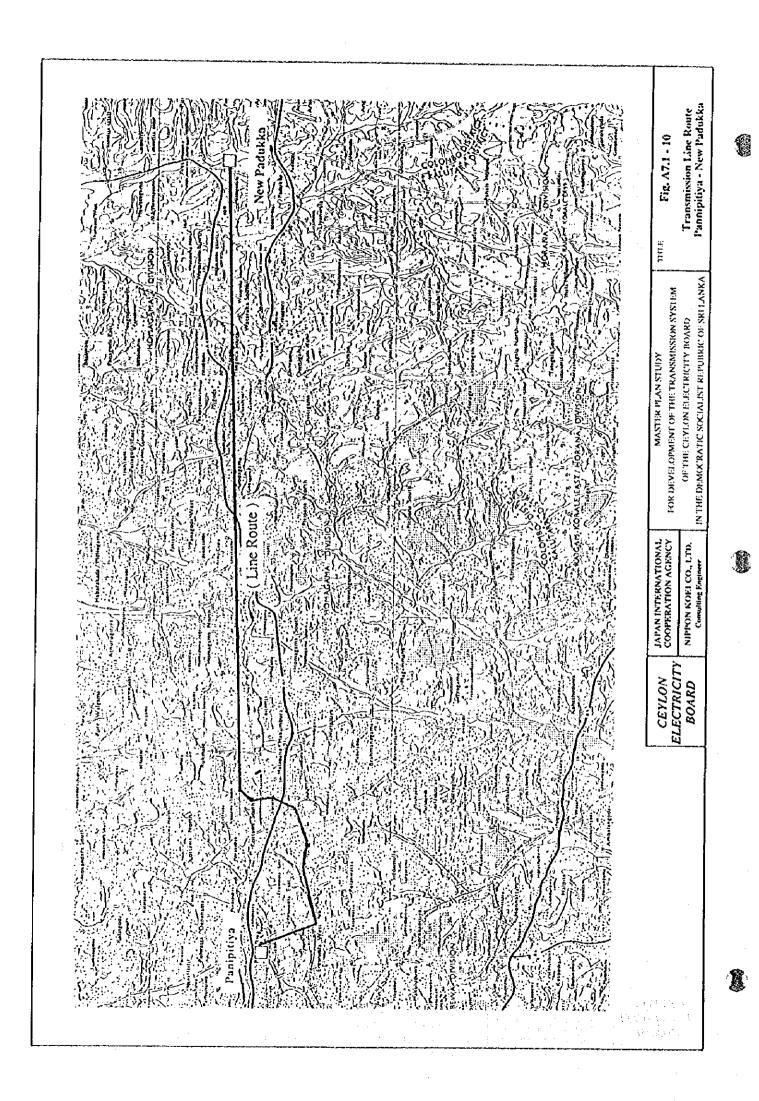
FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

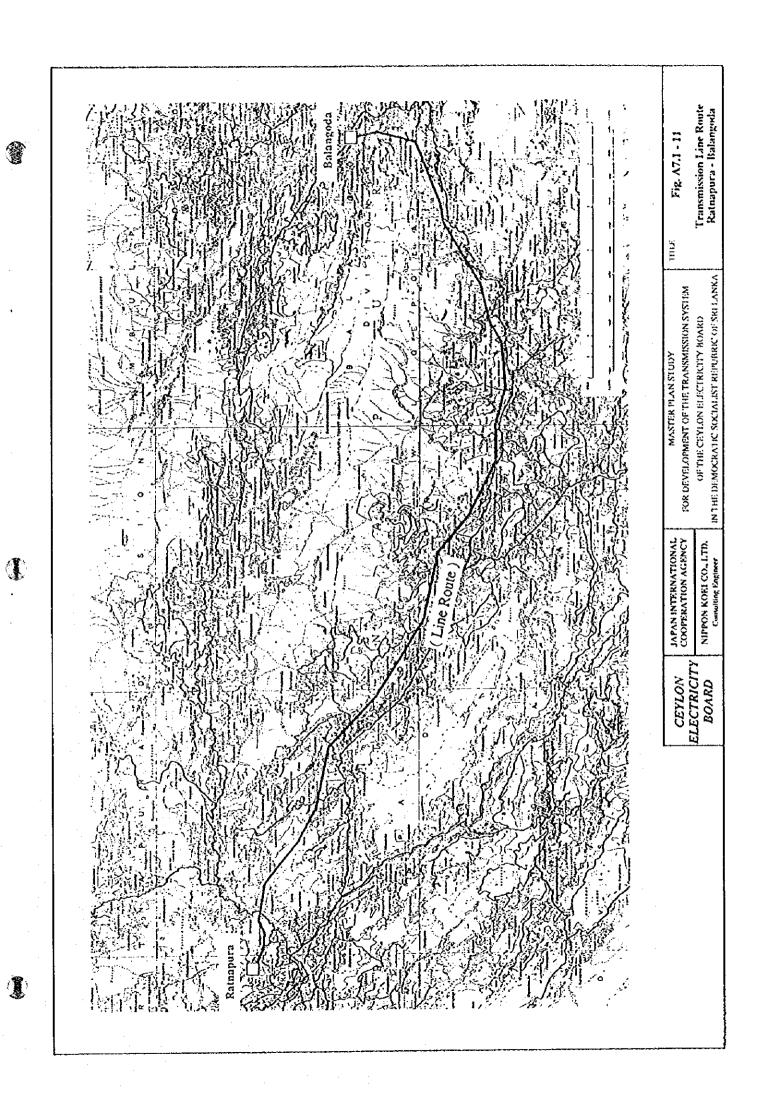
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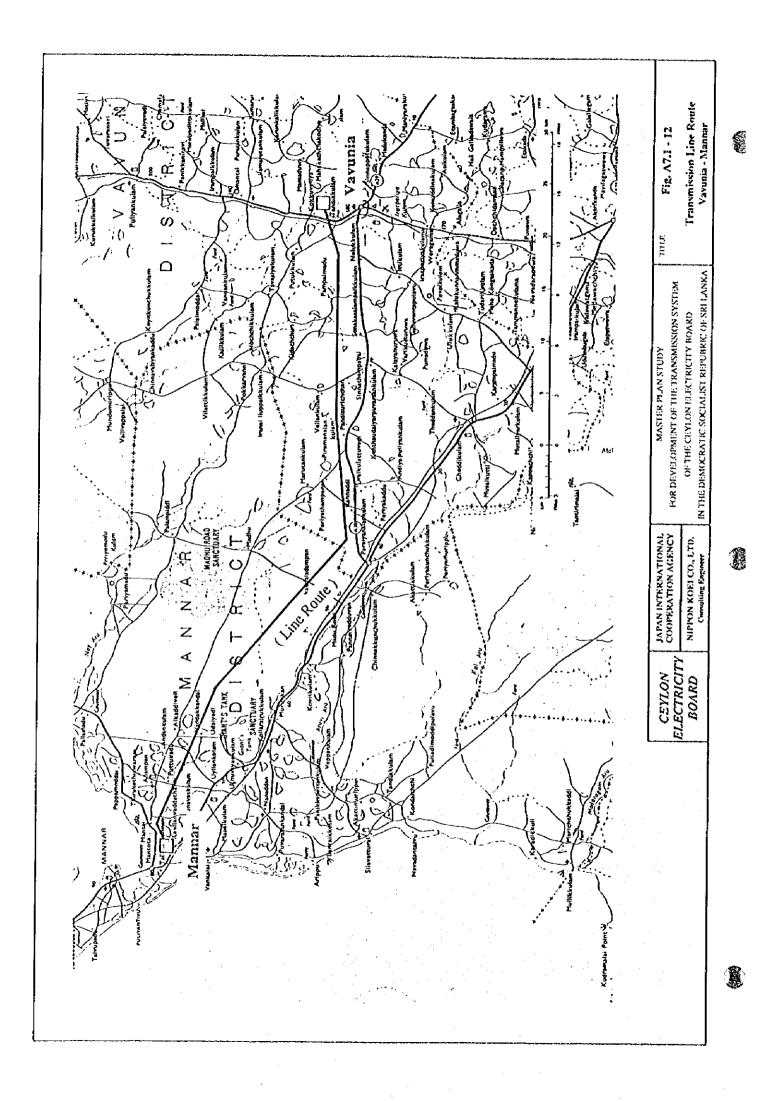
Transmission Line Route Trincomalee - Veyangoda

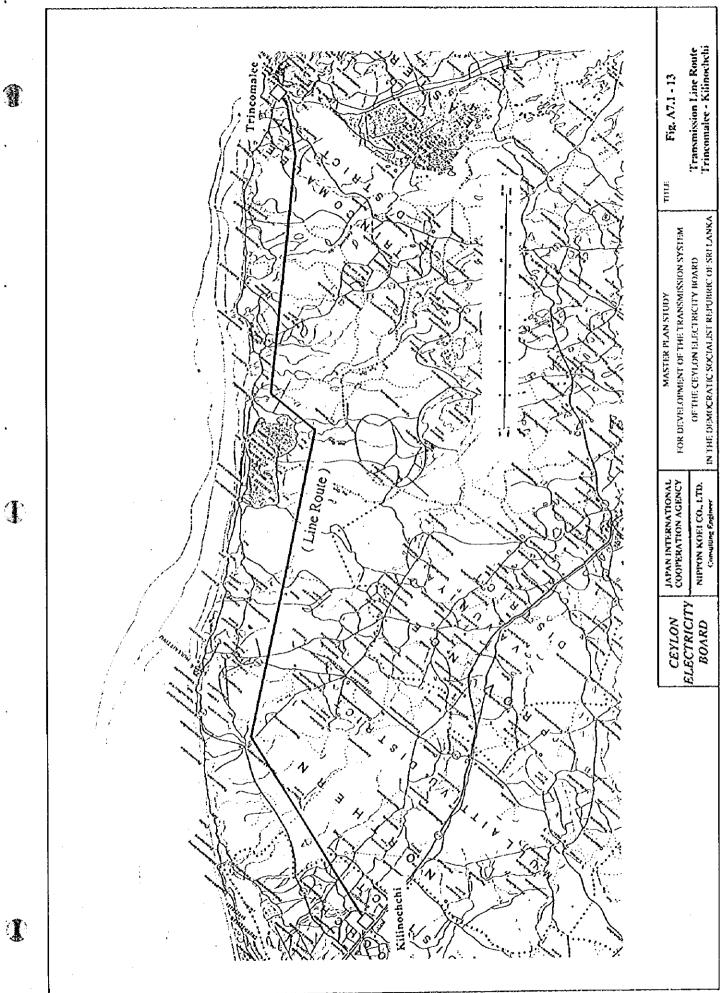


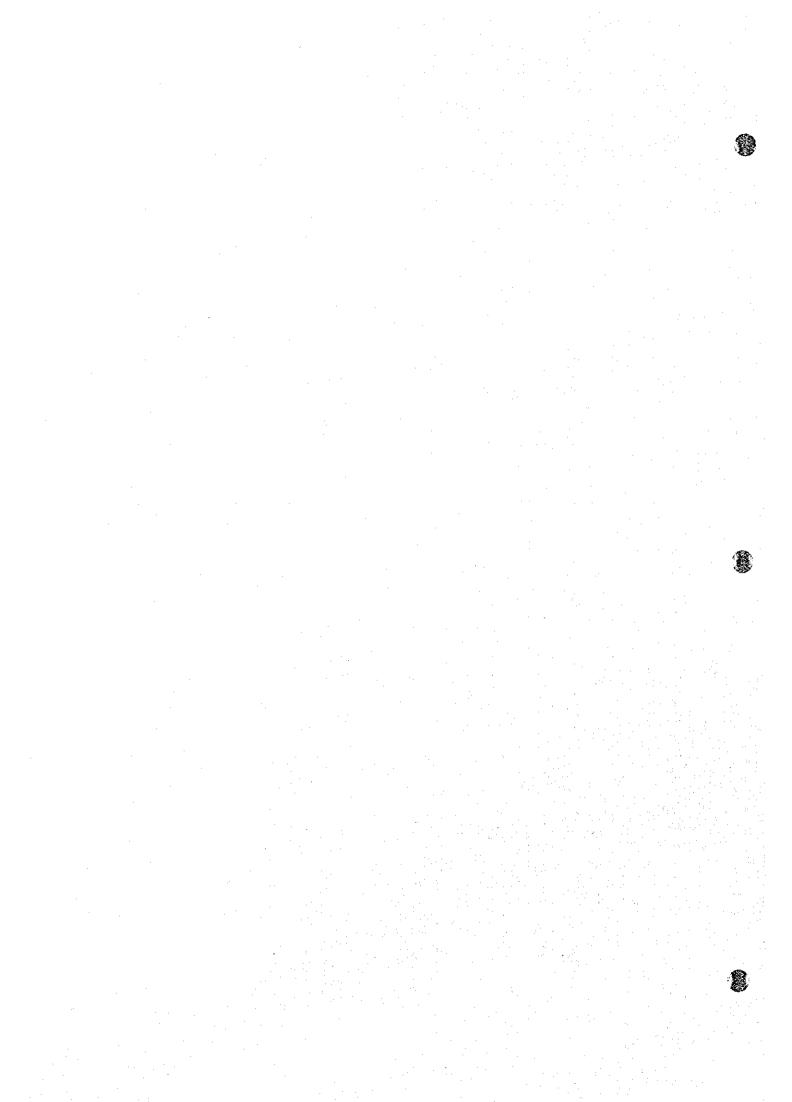
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A7.2 Substations and Switching Stations

Ref. No.	Site and One Line Diagram
Fig. A7.2 - 1	Small Size Grid Substation
Fig. A7.2 - 2	Ambalangoda Substation
Fig. A7.2 - 3	Angoda Substation
Fig. A7.2 - 4	Angurowella Substation
Fig. A7.2 - 5	Aniyakanda Substation
Fig. A7.2 - 6	Athurugiriya Substation
Fig. A7.2 - 7	B Substation
Fig. A7.2 - 8	Balangoda Substation
Fig. A7.2 - 9	Dehiwala Substation
Fig. A7.2 - 10	Eheliyagoda Substation
Fig. A7.2 - 11	Gonawala Substation
Fig. A7.2 - 12	Hambantota Substation
Fig. A7.2 - 13	Horana Substation
Fig. A7.2 - 14	Imbulgoda Substation
Fig. A7.2 - 15	Katana Substation
Fig. A7.2 - 16	Kegalle Substation
Fig. A7.2 - 17	Kelaniya Substation
Fig. A7.2 - 18	Kesbewa Substation
Fig. A7.2 - 19	Kolonnawa Substation
Fig. A7.2 - 20	Kotugoda Substation
Fig. A7.2 - 21	Kuliyapitiya Substation
Fig. A7.2 - 22	Matale Substation
Fig. A7.2 - 23	Matugama Substation
Fig. A7.2 - 24	New Chilaw Substation
Fig. A7.2 - 25	New Galle Substation
Fig. A7.2 - 26	New Habarana Switching Station
Fig. A7.2 - 27	New Padukka Switching Station
Fig. A7.2 - 28	New Polpitiya Switching Station
Fig. A7.2 - 29	Palekelle Substation
Fig. A7.2 - 30	Pannala Substation
Fig. A7.2 - 31	Pannipitiya Substation
Fig. A7.2 - 32	Polonnaruwa Substation
Fig. A7.2 - 33	Ratnapura Substation
Fig. A7.2 - 34	Sapugaskanda Substation
Fig. A7.2 - 35	Sri Jaya'pura Substation
Fig. A7.2 - 36	Thulhiriya Substation
Fig. A7.2 - 37	Town Hall Substation
Fig. A7.2 - 38	Vavunia Substation
Fig. A7.2 - 39	Veyangoda Substation
Fig. A7.2 - 40	Wariyapola Switching Station

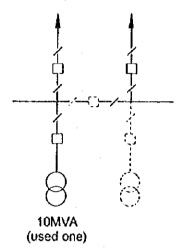




(I) Two Circuits Recieving and One Transformer

Applicapable Substations

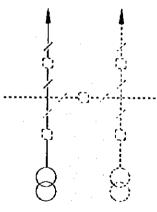
- 1) Medagama
- 2) Paddiruppu
- 3) Galenbindunuwewa
- 4) Pulmoddai
- 5) Batticaloa
- 6) Mullattivu



(II) One Circuit Recieving and One Transformer

Applicapable Substations

- 1) Mannar
- 2) Daladegama
- 3) Girandurukotre
- 4) Wellawaya
- 5) Tissamaharama
- 6) Palattadichchenai
- 7) Maha Oya



10MVA (used one)

Notes

(I) Circuit breaker is installed at the sending end only.

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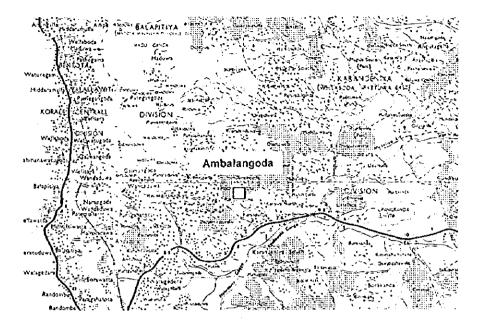
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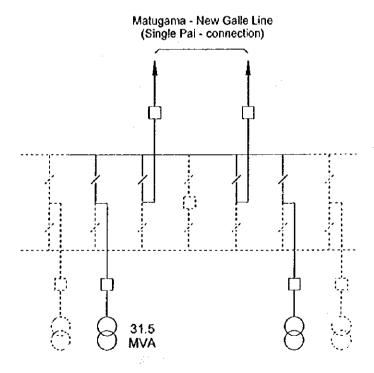
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Fig. A7.2 - 1

One-Line Diagram of Small Size Grid Substation





1

(I) Proposed Extension Plan

(II) Others

-Not shaded : up to 2005

(a) Initially, single bus system

-Dotted line : up to 2015 or after

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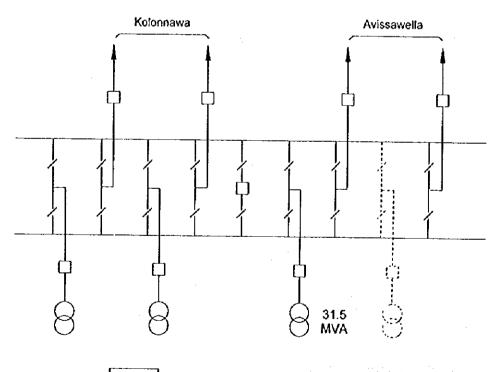
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TITLE

Fig. A7.2 - 2
Site & One-Line Diagram of Ambalangoda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

- Dotted line : up to 2015 or after

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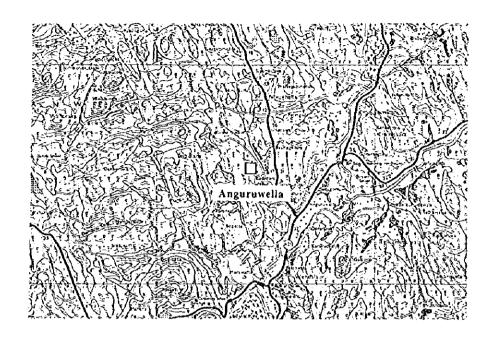
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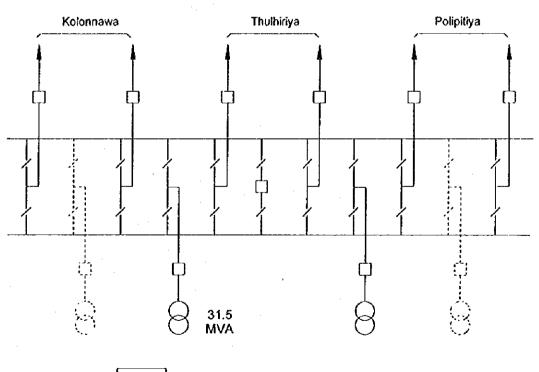
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Fig. A7.2 - 3

Site & One-Line Diagram of Angoda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

- Dotted line : up to 2015 or after

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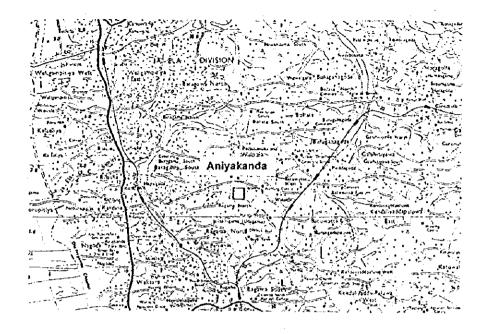
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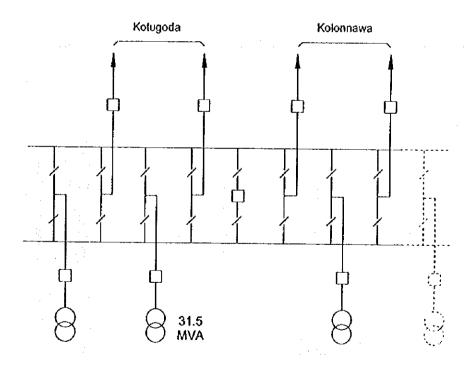
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Fig. A7.2 - 4 Site & One-Line Diagram of Anguruwella Substation





(I) Proposed Extension Plan

- Not shaded : up to 2000

- 6 5 : up to 2010

- Dotted line : up to 2015 or after

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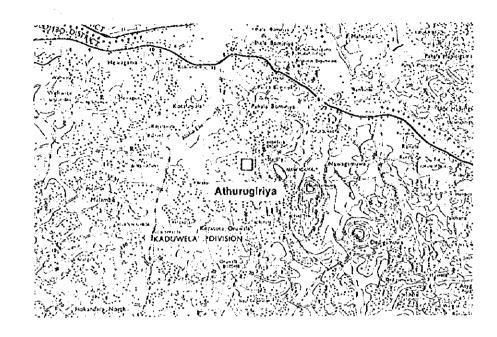
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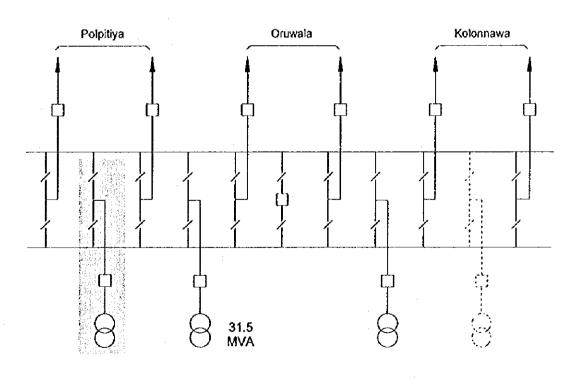
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Fig. A7.2 - 5 Site & One-Line Diagram of Aniyakanda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2000

- : up to 2010

- Dotted line : up to 2015 or after

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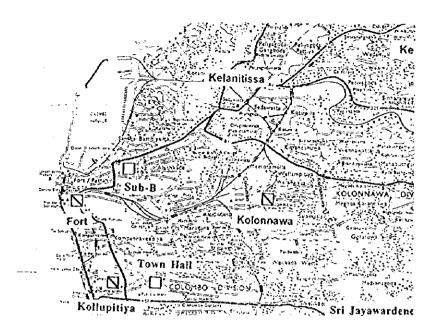
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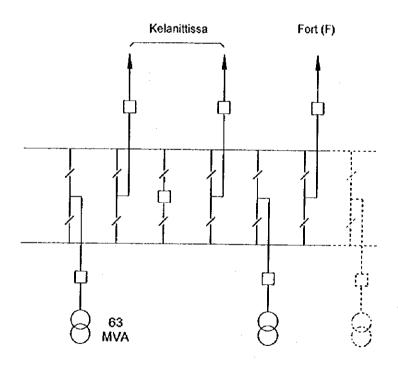
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Fig. A7.2 - 6
Site & One-Line Diagram of
Athurugiriya Substation





- (I) Proposed Extension Plan
 - Not shaded : up to 2010
 - · Dotted line : up to 2015 or after
- (II) Others
 - (a) A transformer bay for future extension shall be provided together with other equipment.
 - (b) GIS

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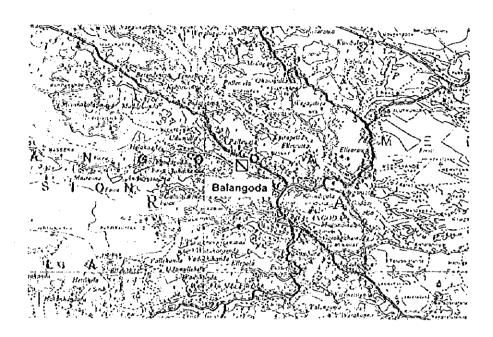
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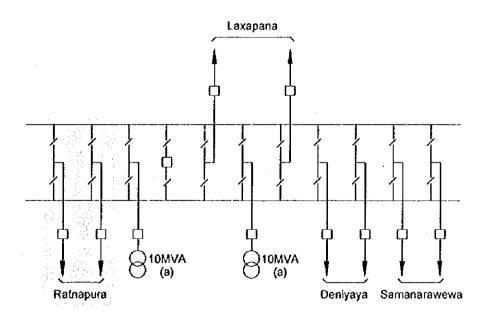
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Fig. A7.2 - 7

Site & One-Line Diagram of B Substation





(i) Proposed Extension Plan

- Not shaded : Existing

- " | to 2000

(II) Others

(a) Existing 10MVA transformers are planned to be replaced with 31.5MVA under PSDP.

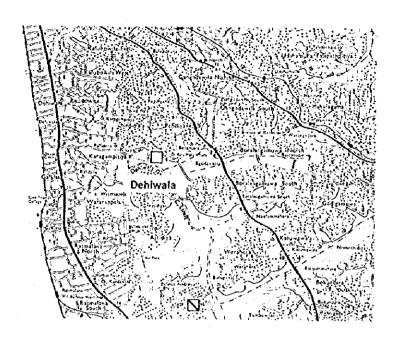
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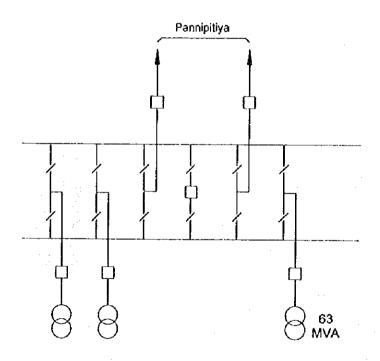
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Fig. A7.2 - 8
Site & One-Line Diagram of Balangoda Substation





(I) Proposed Extension Plan

(II) Others

- Not shaded : up to 2000

(a) Pannipitiya - Dehiwala line : 220kV construction

- : up to 2010

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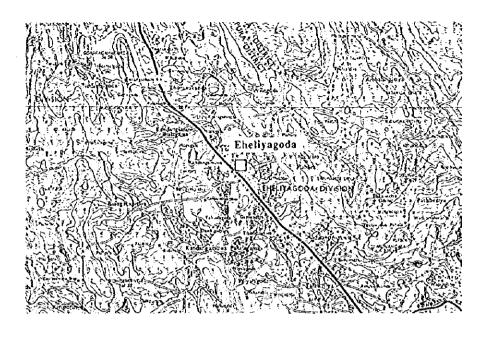
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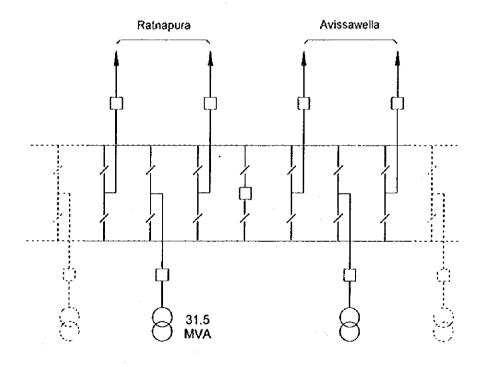
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Fig. A7.2 - 9
Site & One-Line Diagram of Dehiwala Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

- Dotted line : up to 2015 or after

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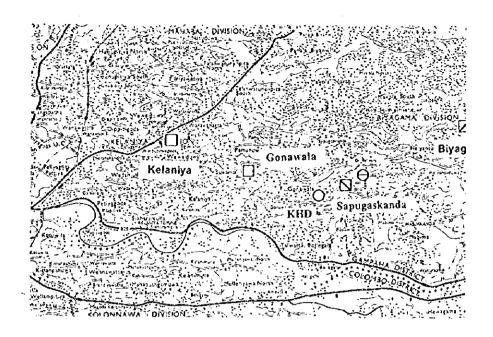
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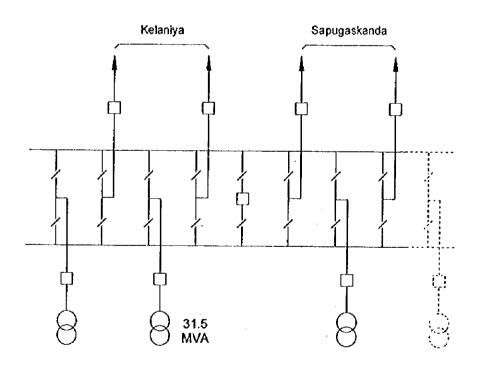
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Fig. A7.2 - 10
Site & One-Line Diagram of Eheliyagoda Substation





(I) Proposed Extension Plan

Not shaded : up to 2005

- Dotted line : up to 2010

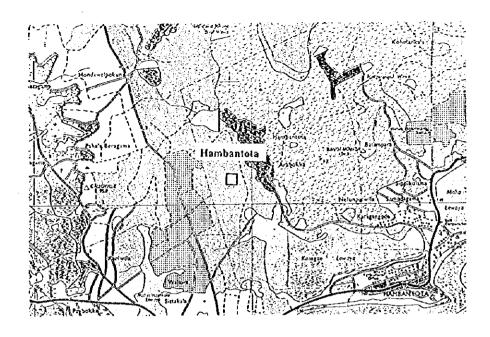
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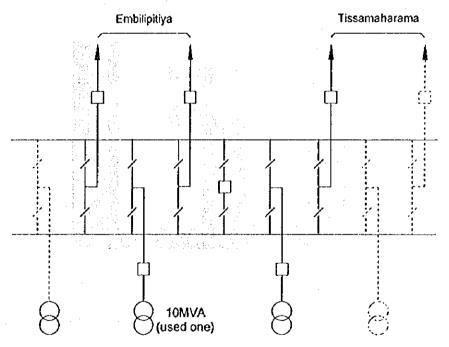
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Fig. A7.2 - 11

Site & One-Line Diagram of Gonawala Substation





(I) Proposed Extension Plan

- Not shaded : up to 2005

: up to 2010

- Dotted line : up to 2015 or after

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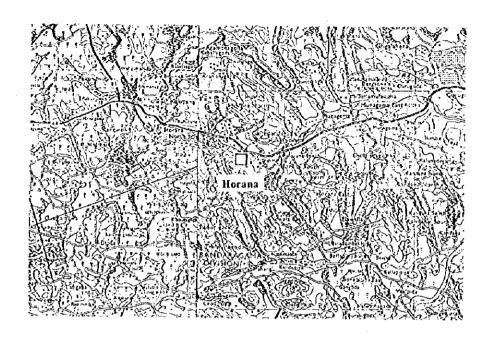
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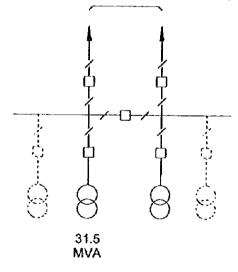
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Fig. A7.2 - 12 Site & One-Line Diagram of Hambantota Substation



Pannipitiya - Matugama Line (Single Pai - connection or Double T - off)



- (I) Proposed Extension Plan
 - Not shaded : up to 2005
 - Dotted line : up to 2010 or after

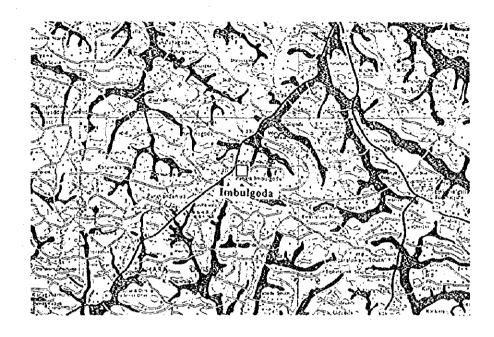
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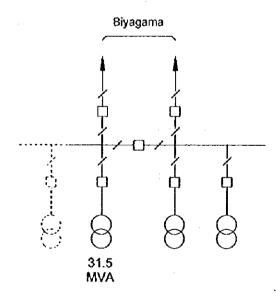
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Fig. A7.2 • 13
Site & One-Line Diagram of Horana Substation







Notes

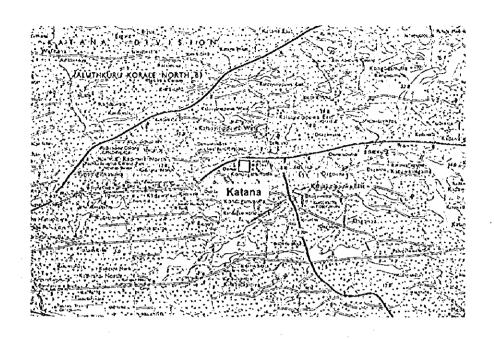
- (I) Proposed Extension Plan
 - Not shaded : up to 2010
 - Dotted line : up to 2015 or after
- (II) Others
 - (a) T/L bays at Biyagama for 132kV line Pannipitiya line are available.

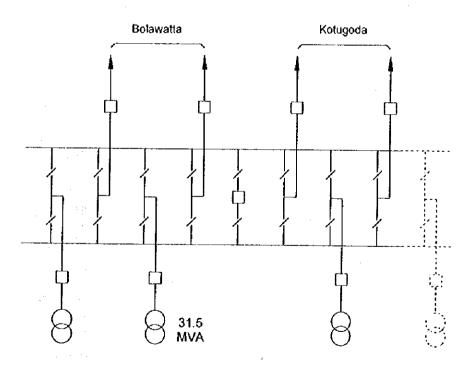
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Fig. A7.2 - 14
Site & One-Line Diagram of Imbulgoda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2005

: up to 2010

- Dotted line : up to 2015 or after

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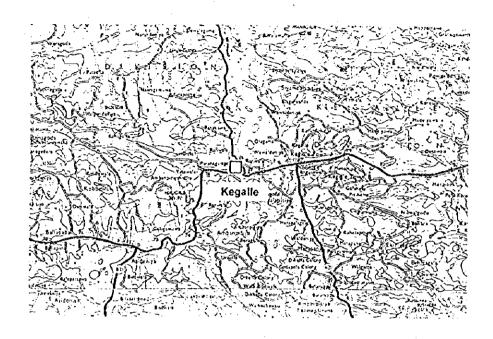
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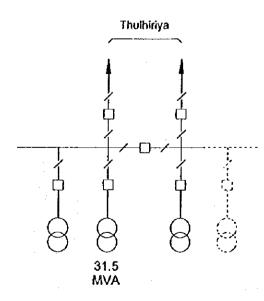
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TITLE

Fig. A7.2 - 15
Site & One-Line Diagram of
Katana Substation







Notes

(I) Proposed Extension Plan

- Not shaded : up to 2005

: up to 2010

- Dotted line : up to 2015 or after

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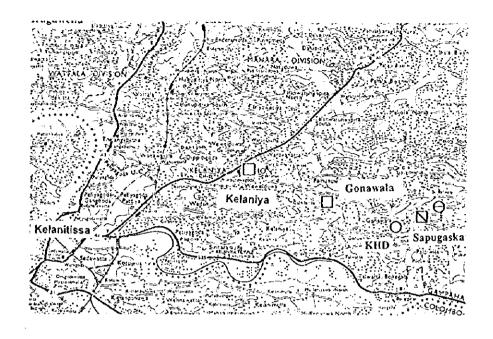
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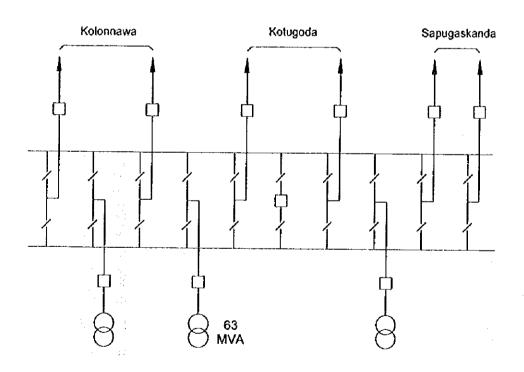
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TITLE

Fig. A7.2 • 16
Site & One-Line Diagram of
Kegalle Substation





(I) Proposed Extension Plan

(II) Others

- Not shaded : up to 2000

- 1833 19 : up to 2010

(a) GIS is recommendable taking land acquisition problems into consideration.

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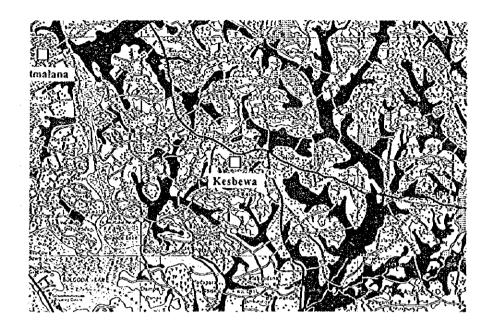
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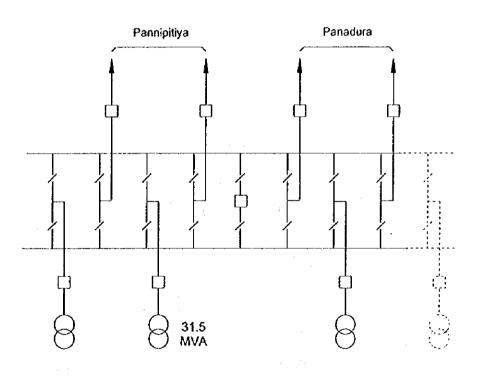
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Site & One-Line Diagram of Kelaniya Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

· Dotted line : up to 2015 or after

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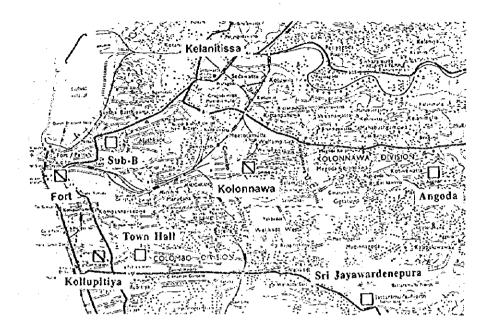
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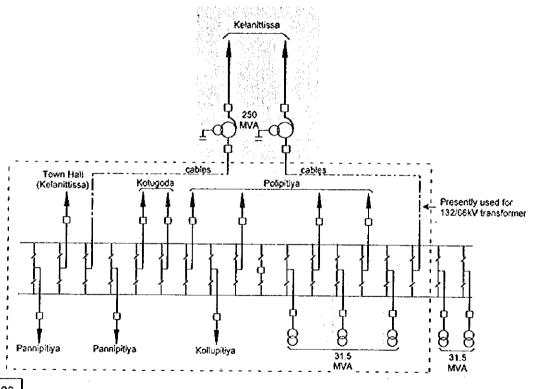
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Fig. A7.2 - 18
Site & One-Line Diagram of Kesbewa Substation





(1) Proposed Extension Plan

(II) Other

- No shaded : Existing

(a) 220kV switchgears: GIS

: Existing, but renoated up to 2000

: up to 2005

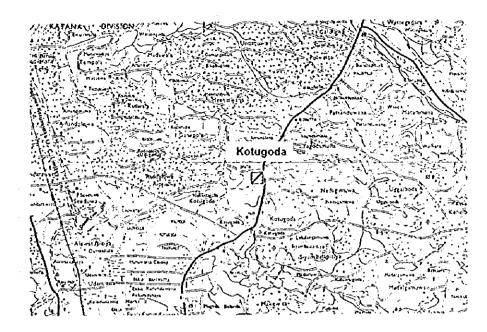
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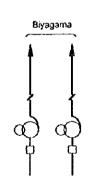
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TITLE

Fig. A7.2 - 19

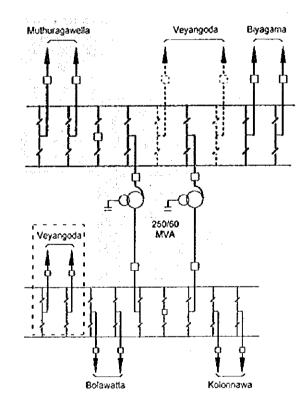
Site & One-Line Diagram of Kolonnawa Substation





1

existing 220kV system



Notes

(I) Proposed Extension Plan

- Not shaded : existing

: up to 2000 (including removal of transformers)

- Doted line : up to 2005

- ITTI : under ADB

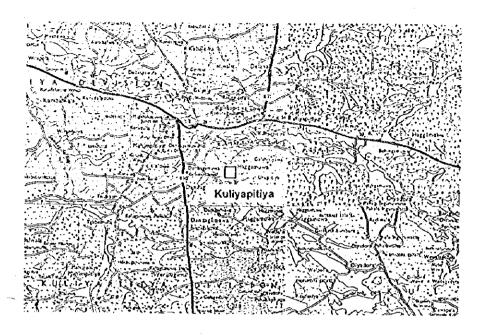
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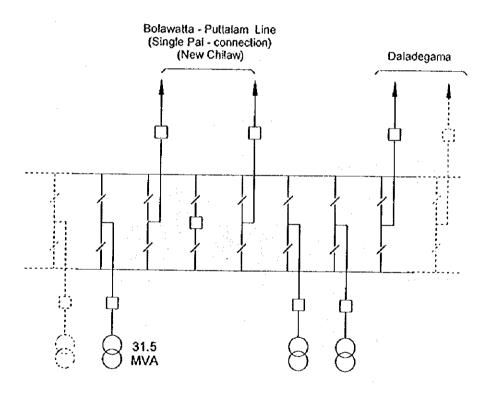
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TITLE

Fig. A7.2 - 20
Site & One-Line Diagram of
Kotugoda Substation





(I) Proposed Extension Plan

(II) Others

· Not shaded

: up to 2005

: up to 2010

- Doted line

: up to 2015 or after

(a) Initially, single bus system

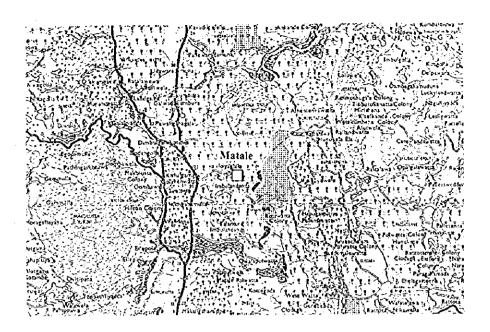
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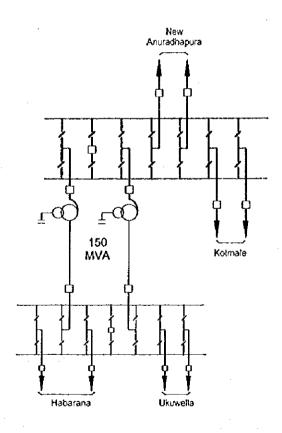
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Consulting Engineer

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Fig. A7.2 - 21
Site & One-Line Diagram of
Kuliyapitiya Substation





(I) Proposed Extension Plan
- Not shaded: up to 2010

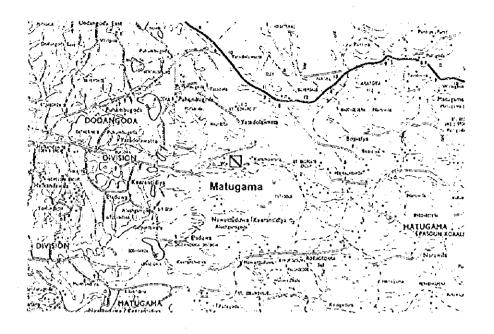
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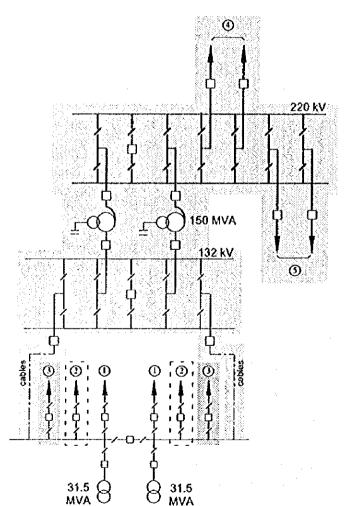
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THLE

Fig. A7.2 - 22
Site & One-Line Diagram of
Matale Substation





(I) Transmission Line

- (1) Panadura
- 2) New Galle
- (3) Kukule
- Pannipitiya
- (5) Boossa

(II) Proposed Extension Plan

- Not shaded: Existing

- 1 [] up to 2000

- : up to 2005

- 305500 : up to 2010

(III) Other

(a) Alternative Plan:

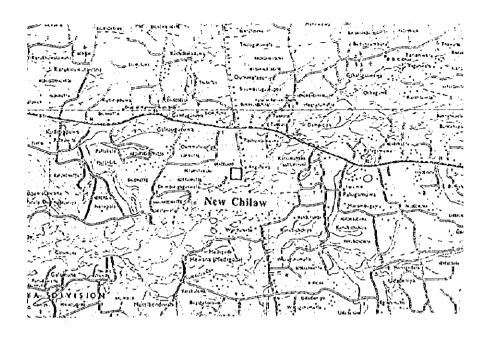
The existing and planned facilities up to 2005 are moved to a new 22(V132kV substation completely for easy operation.

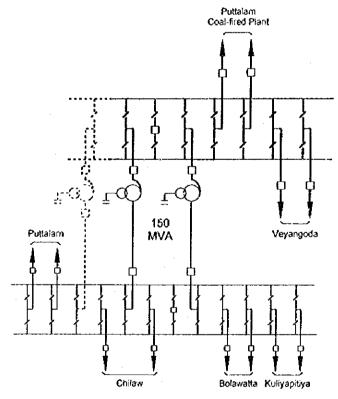
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TITLE

Fig. A7.2 · 23
Site & One-Line Diagram of
Matugama Substation





(I) Proposed Extension Plan

- Not shaded : up to 2005

- Doted line : up to 2015 or after

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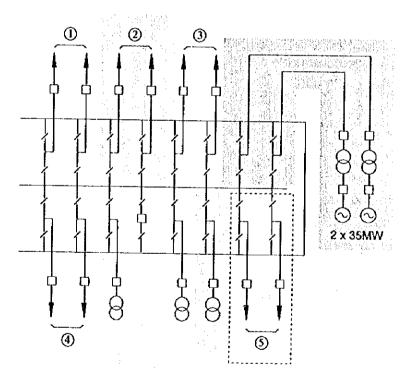
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Fig. A7.2 • 24
Site & One-Line Diagram of
New Chilaw Substation





(I) Transmission Line

(II) Proposed Extension Plan

1 Deniyaya Line

4 Matugama Line

- Not shaded : up to 2000

② Matara Line

(5) Boossa Line

: up to 2005

- (CCC) - 2/48/3

: up to 2010

3 Galle Line

: by another project

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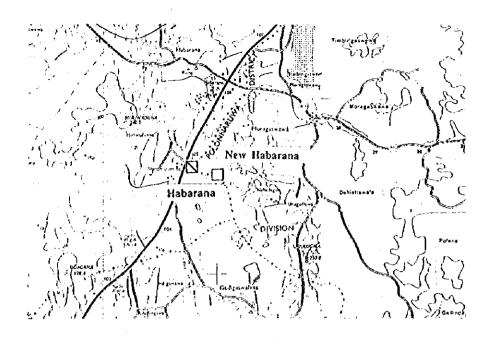
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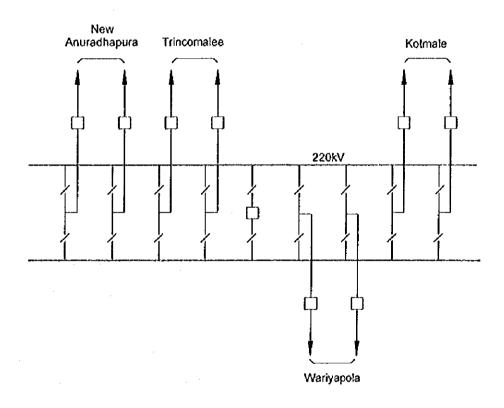
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MASTER PLAN STUDY FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM OF THE CEYLON ELECTRICITY BOARD IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

TITLE Fig. A7.2 - 25

Site & One-Line Diagram of New Galle Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

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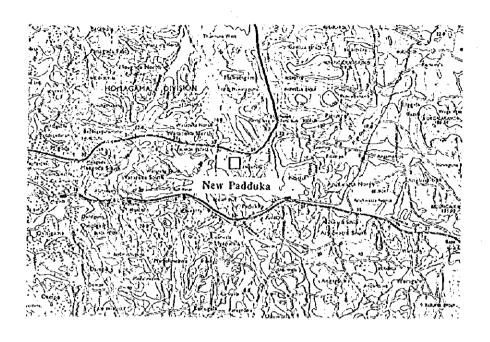
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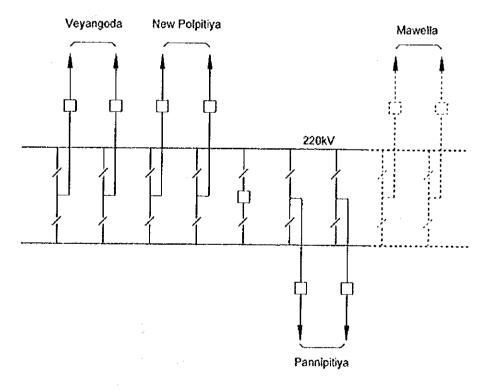
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Fig. A7.2 - 26

Site & Onc-Line Diagram of New Habarana Switching Station





(I) Proposed Extension Plan

- Not shaded : up to 2010 - Dotted line : up to 2015

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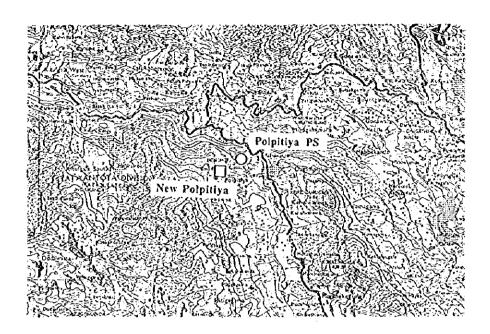
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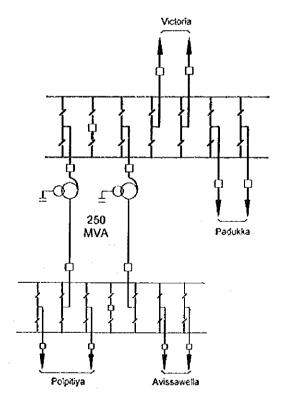
TITLE

Fig. A7.2 - 27

Site & One-Line Diagram of New Padukka Switching Station







Notes

(I) Proposed Extension Plan - No shaded : up to 2010

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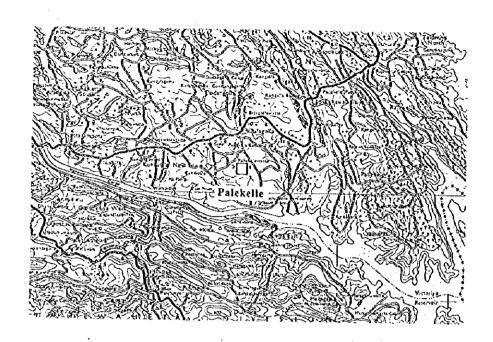
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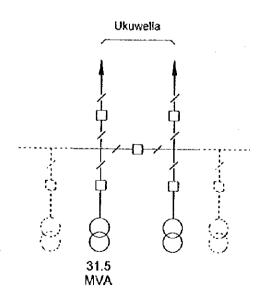
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Site & One-Line Diagram of New Polpitiya Switching Station





(I) Proposed Extension Plan

- Not shaded : up to 2005

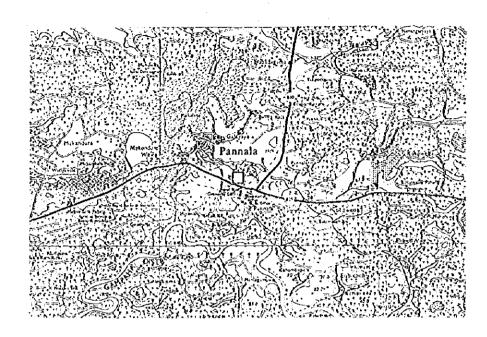
- Doted fine : up to 2015 or after

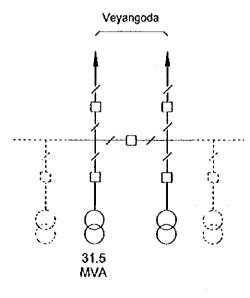
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Fig. A7.2 • 29
Site & One-Line Diagram of
Palekelte Substation





- (I) Proposed Extension Plan
 - Not shaded : up to 2010
 - Doted line : up to 2015 or after
- (II) Others
 - (a) T/L bays at Veyangoda for Kotugoda line are available.

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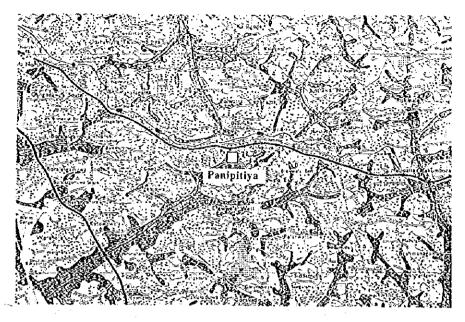
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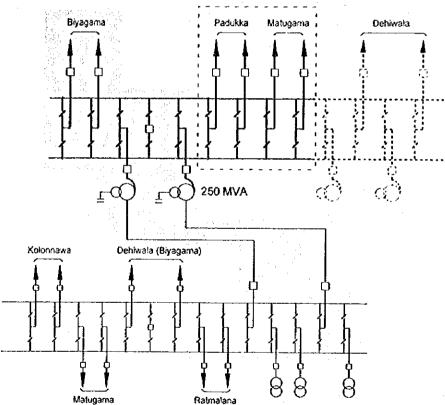
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TITLE

Fig. A7.2 • 30
Site & One-Line Diagram of Pannala Substation





(I) Proposed Extension Plan

- Not shaded : existing : up to 2000

: up to 2010

- Doted line

: up to 2015 or after

(II) Others

- (a) Existing 132kV transformers and 33kV switchgears shall be moved when upgraded to 220kV.
- (b) Existing 132kV Biyagama line bay is available for Dehiwała line.

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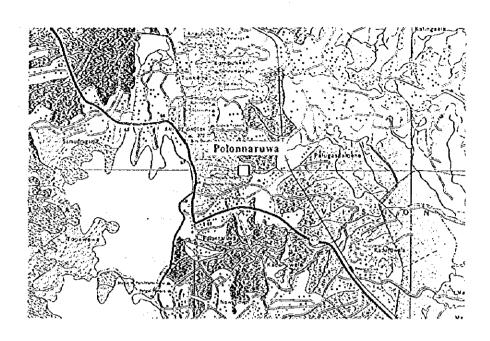
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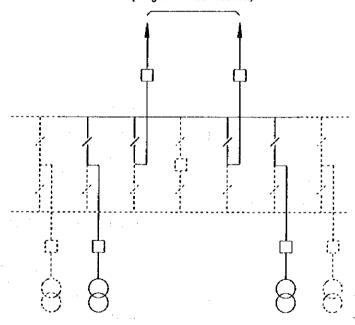
Fig. A7.2 - 31

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Site & One-Line Diagram of Pannipitiya Substation



Habarana - Valaichchenai Line (Single Pai - connection)



(I) Proposed Extension Plan

(II) Others

- Not shaded : up to 2005
- Doted line : up to 2010 or after
- (a) Plesently used transformers at Kurunegala are available.

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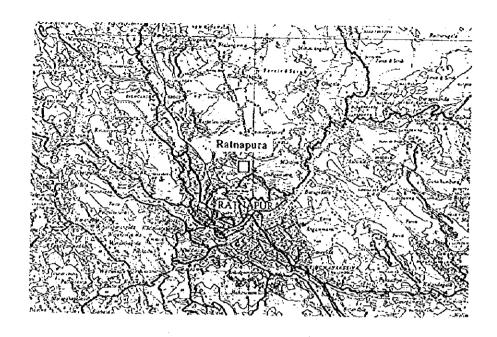
FOR DEVELOPMENT OF THE TRANSMISSION SYSTEM

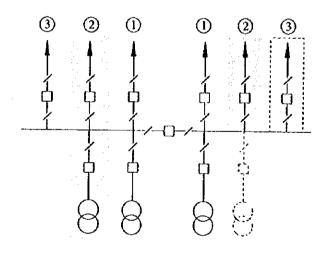
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IN THE DEMOCRATIC SOCIALIST REPUBRIC OF SRI LANKA

TITLE

Fig. A7.2 • 32
Site & One-Line Diagram of Polonnaruwa Substation





- (I) Transmission Line
 - (1) Balangoda
 - (2) Kukule
 - (3) Eheliyagoda
- (II) Proposed Extension Plan

- Not shaded : up to 2000

- \$10,000 : up to 2005

: up to 2010

- Doted line : up to 2015 or after

(III) Others

Bus arrengement is subject to the available land space

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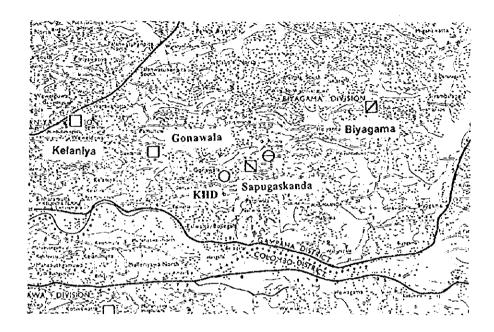
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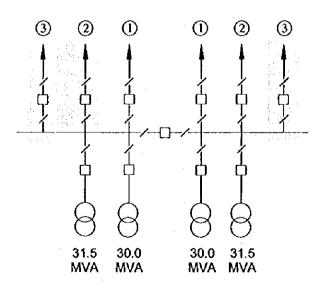
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Fig. A7.2 - 33

Site & One-Line Diagram of Ratnapura Substation





- (I) Transmission Line
 - (1) Kelaniya
 - (2) Sapugaskanda PS
 - (3) KHD
- (II) Proposed Extension Plan

- Not shaded : Existing & under construction

- 100 to 2000

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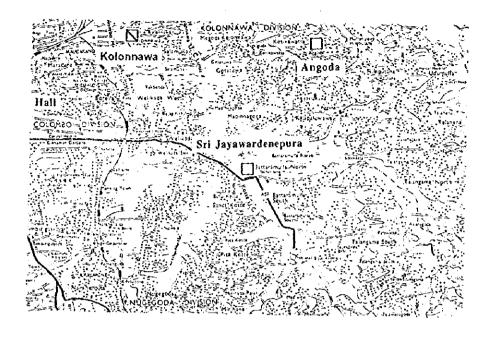
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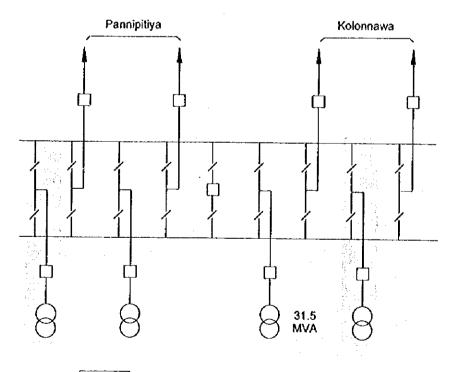
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Fig. A7.2 - 34
Site & One-Line Diagram of Sapugaskanda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2000

- : up to 2005

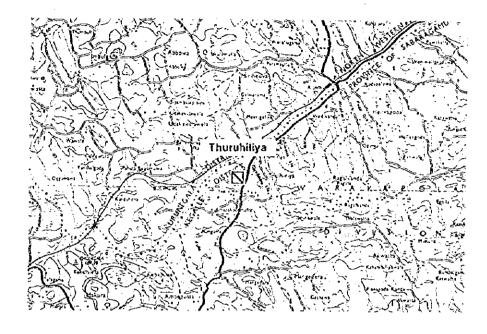
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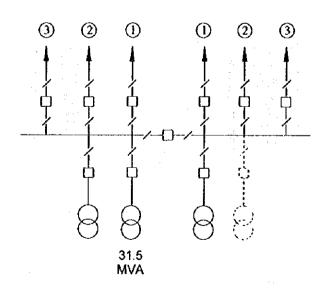
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TITLE

Fig. A7.2 - 35

Site & One-Line Diagram of Sri Jaya'pura Substation





- (I) Transmission Line
 - (1) Aguruwella
 - ② Veyangoda
 - (3) Kegalle
- (II) Proposed Extension Plan
 - Not shaded : Existing & Committed
 - 13980 : up to 2010
 - Doted line : up to 2015 or after
- (III) Others
 - (a) Bus section circuit breaker is not presently provided.

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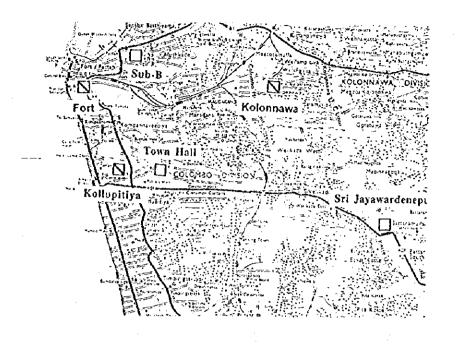
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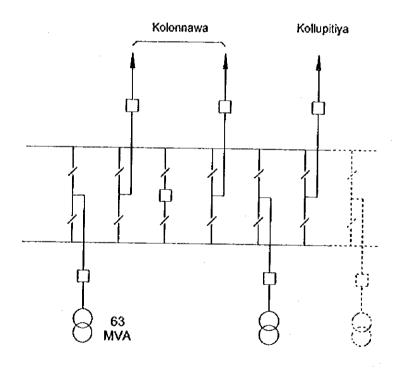
Consulting Engineer

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TITLE

Fig. A7.2 - 36 Site & One-Line Diagram of Thulhiriya Substation





- (l) Proposed Extension Plan
 - Not shaded : up to 2010
 - Dotted line : up to 2015 or after
- (II) Others
 - (a) A transformer bay for future extension shall be provided when newly constructed.

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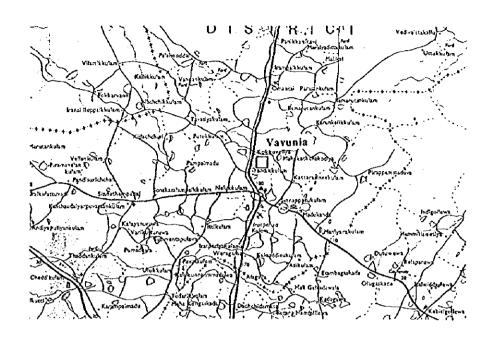
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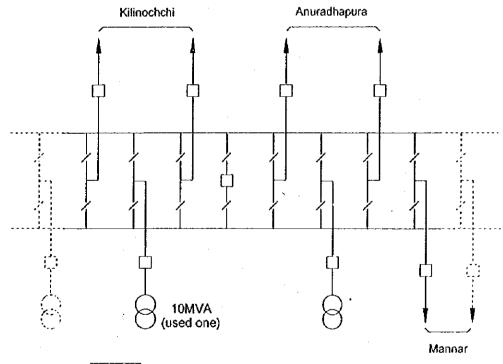
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TITLE

Fig. A7.2 - 37

Site & One-Line Diagram of Town Hall Substation





(I) Proposed Extension Plan

- Not shaded : up to 2005

- up to 2010

- Dotted line : up to 2015 or after

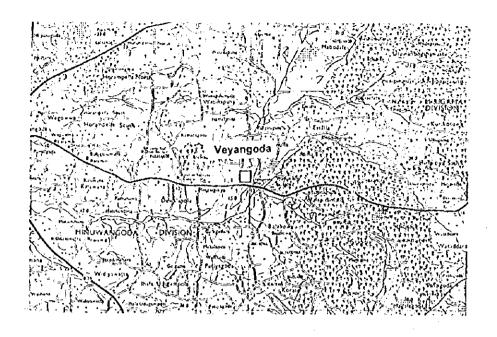
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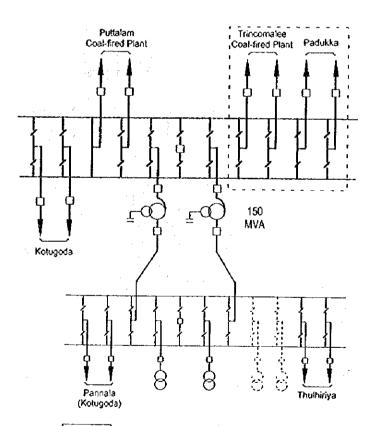
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TITLE

Fig. A7.2 - 38
Site & One-Line Diagram of
Vavunia Substation





(1) Proposed Extension Plan

- Not shaded : under SPSEP (ADB)

- 121211 : up to 2005 - 12121 : up to 2010

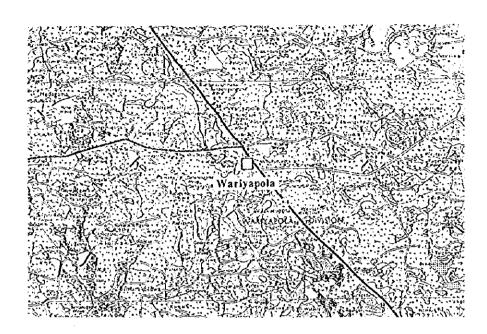
- Doted line : up to 2015 or after

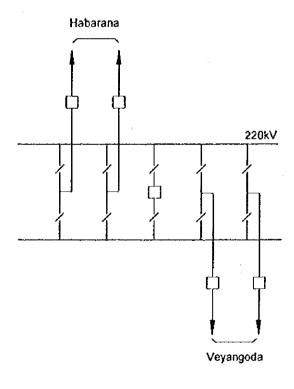
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TITLE

Fig. A7.2 - 39
Site & One-Line Diagram of Veyangoda Substation





(I) Proposed Extension Plan

- Not shaded : up to 2010

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Fig. A7.2 - 40
Site & One-Line Diagram of
Wariyapola Switching Sstation