

Table A6.1.5 - 2 Data of Planned Transformers by the End of 2015

No.	Node		No. of Unit	Rated Voltage (kV)			Rated Capacity (MVA)			Impedance Voltage / Unit (%)		Tap (% nos)			
	(High Voltage)	(Low Voltage)		H	L	M	H	L	M	between	(base MVA)	(00 MVA base	Highest	Lowest	Nos.
24	VEYAN-1	VEYAN-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
25	RATMA-1	RATMA-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
26	PANNI-1	PANNI-3	1	132.0	33.0		220.5	220.5		H-L	10.00 (220.5)	4.54	H 5.0	-15.0	17
27	KOLON-1	KOLON-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
28	AVISS-1	AVISS-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
29	PANAD-1	PANAD-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
30	SRIJA-1	SRIJA-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
31	KESBE-1	KESBE-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
32	GALLE-1	GALLE-3	1	132.0	33.0		123.0	123.0		H-L	10.00 (123.0)	8.13	H 5.0	-15.0	17
33	MATAR-1	MATAR-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
34	N-GALL-1	N-GALL-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
35	BOOS-1	BOOS-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
36	THULH-1	THULH-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
37	RATNA-1	RATNA-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
38	KEGAL-1	KEGAL-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
39	AGURU-1	AGURU-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
40	EHELI-1	EHELI-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
41	SUB-8-1	SUB-8-11	1	132.0	11.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
42	IMBULG-1	IMBULG-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
43	KATANA-1	KATANA-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
44	GONAWA-1	GONAWA-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17
45	ANIYA-1	ANIYA-3	1	132.0	33.0		126.0	126.0		H-L	10.00 (126.0)	7.94	H 5.0	-15.0	17
46	ANURA-1	ANURA-3	1	132.0	33.0		94.5	94.5		H-L	10.00 (94.5)	10.58	H 5.0	-15.0	17
47	MUTHR-2	MUTHR-3	1	220.0	33.0		189.0	189.0		H-L	13.00 (189.0)	6.88	H 5.0	-15.0	17
48	KOLON-1	KOLON-3	1	132.0	33.0		189.0	189.0		H-L	10.00 (189.0)	5.29	H 5.0	-15.0	17

Notes:  
 1) Sources: \* : CEB's record, \*\* : Name plate at the site, none : Assumed value  
 2) Shaded nodes; Not in operation

**Table A6.1.5 - 3 Data of Planned Generators by the End of 2015**

No.	Node	Type	No. of Unit	Rated Voltage (kV)	Rated Capacity (MVA)	Rated Output (MW)	Xd" (%)
<b>Data modification for the system in 2015 year</b>							
<b>New construction</b>							
1	<b>Mawella P/S Total</b>				<b>706.00</b>	<b>600.00</b>	
	MAWEL-G	coal	2	11.0	353.00	300.00	16.0
<b>Augmentation (Additional Capacity)</b>							
2	<b>Boosa P/S Total</b>				<b>353.00</b>	<b>300.00</b>	
	BOOS-G	c. c.	1	11.0	353.00	300.00	16.0
3	<b>Trincomalee P/S Total</b>				<b>353.00</b>	<b>300.00</b>	
	TRINC-G	coal	1	11.0	353.00	300.00	16.0
4	<b>Muthragawella P/S Total</b>				<b>353.00</b>	<b>300.00</b>	
	MUTHR-G	c. c.	1	11.0	353.00	300.00	16.0
5	<b>Kelanitissa P/S Total</b>				<b>353.00</b>	<b>300.00</b>	
	KELA-CCI	c. c.	1	11.0	353.00	300.00	16.0
5	<b>Chunnakam P/S Total</b>				<b>82.00</b>	<b>70.00</b>	
	CHUNN-G	gas	1	11.0	82.00	70.00	16.0
6	<b>Balangoda P/S Total</b>				<b>82.00</b>	<b>70.00</b>	
	BALAN-G		1	11.0	82.00	70.00	16.0
7	<b>Athurugiriya P/S Total</b>				<b>82.00</b>	<b>70.00</b>	
	ATHUR-G		1	11.0	82.00	70.00	16.0
<b>Retirement</b>							
	non						



**Table A6.1.5 - 5**  
**Generator Output Schedule for 2015 System**

No.	Node	Type	Scheduled Output (MW)	Max Output *2) (MW)
1	LAX-G	hydro	45.00	50.00
2	N-LAX-G	hydro	90.00	100.00
3	WIMAL-G	hydro	45.00	50.00
4	CANYO-G	hydro	54.00	60.00
5	POLPI-G	hydro	68.00	75.00
6	UKUWE-G	hydro	34.00	38.00
7	BOWAT-G	hydro	36.00	40.00
8	VICTO-G	hydro	189.00	210.00
9	RANDE-G	hydro	110.00	122.00
10	KOTMA-G1	hydro	121.00	134.00
11	KOTMA-G2	hydro	60.00	67.00
12	RANTE-G	hydro	44.00	49.00
13	SAMAN-G	hydro	108.00	120.00
14	KUKULE-G	hydro	70.00	78.20
15	KELA-GT1	gas	14.00	18.00
16	KELA-GT2	gas	72.00	90.00
17	KELA-GT3	gas	82.00	102.60
18	KELA-GT4	gas	19.00	23.40
19	KELA-CC1	c.c.	405.00	405.00
20	MUTHR-G	c.c.	405.00	405.00
21	N-GALL-G	gas	50.00	63.00
22	SAPU-GN1	diesel	29.00	36.00
23	SAPU-GN2	diesel	29.00	36.00
24	KHD-G	diesel	37.00	46.00
25	CHUNN-G	dg & gas	72.00	90.00
26	PUTTA-PG *1)	steam	675.00	675.00
27	TRINC-G	steam	972.00	1080.00
28	BOOS-G	c. c.	540.00	540.00
29	MAWEL-G	steam	540.00	540.00
30	BALAN-G	gas	50.00	63.00
31	ATHUR-G	gas	50.00	63.00
<b>Hydro total</b>			<b>1074.00</b>	<b>1193.20</b>
<b>Thermal total</b>			<b>4041.00</b>	<b>4276.00</b>
<b>Total of Generation</b>			<b>5115.00</b>	<b>5469.20</b>

Notes :

- \*1) Slack node and one unit (150 MW) under maintenance
- \*2) Maximum output = Rated output, for hydro stations  
 Maximum output = Rated output x 0.9, for thermal stations

Total Demand = 4944 (MW)  
 Maintenance = 150 (MW)  
 Total Reserve = 7.16 (%)  
 Spinning Res. = 2.41 (%)  
 Hot Reserve = 4.75 (%)  
 Net supply (MW) = 4961.55  
 (considering 3.0 % system loss)

## Table A6.2 - 1 Formula for Ranking Evaluation

### 1. Over Load Ranking

$$PI = \sum_{\ell=1}^L W_{\ell} \left( \frac{P_{\ell}}{P_{\ell}^{\text{limit}}} \right)^2$$

Where :

$W_{\ell}$  = a real, constant weighting coefficient on circuit  $\ell$

$P_{\ell}$  = real power flow on circuit  $\ell$

$P_{\ell}^{\text{limit}}$  = real power flow limit on circuit  $\ell$

$L$  = total number of circuits

### 2. Voltage Collapse Ranking

$$PI = \sum_{\ell=1}^L X_{\ell} P_{\ell}^2$$

Where :

$X_{\ell}$  = reactance of circuit  $\ell$

$P_{\ell}$  = real power flow on circuit  $\ell$

TABLE A6.2.1-1 Overload Ranking of 1995 System

28 Nov 1995 Evening Peak Load

Note Rating 'B' is the evening rating for the overheadlines, Rating 'C' is the emergency rating.

\*\*\* BRANCH OVERLOAD RANKING BASED ON 1.00 OF RATING-B \*\*\*

RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
( 1)	1220 KOTMA-1	132	1770 KIRIB-1	132	1	79	45	100	140	28.5
( 2)	1200 UKUWE-1	132	1690 HABAR-1	132	1	40	45	100	140	26.6
( 3)	3580 KOTUG-3	33.0	5581 KOTU-DU1	220	1	-40	60	60	60	26.5
( 4)	3580 KOTUG-3	33.0	5582 KOTU-DU2	220	1	-40	60	60	60	26.5
( 5)	1130 POLPI-1	132	1550 KOLON-1	132	1	47	45	100	140	26.2
( 6)	1130 POLPI-1	132	1550 KOLON-1	132	2	47	45	100	140	26.2
( 7)	2580 KOTUG-2	220	5582 KOTU-DU2	220	1	101	250	250	250	25.9
( 8)	2580 KOTUG-2	220	5581 KOTU-DU1	220	1	101	250	250	250	25.9
( 9)	1130 POLPI-1	132	1200 UKUWE-1	132	1	23	45	100	140	25.9
(10)	1130 POLPI-1	132	5531 THULH-T1	132	1	54	45	100	140	25.7
(11)	1130 POLPI-1	132	5532 THULH-T2	132	2	54	45	100	140	25.7
(12)	1110 N-LAX-1	132	1130 POLPI-1	132	1	42	45	100	140	25.7
(13)	1110 N-LAX-1	132	1130 POLPI-1	132	2	42	45	100	140	25.7
(14)	1580 KOTUG-1	132	5582 KOTU-DU2	220	1	-61	250	250	250	25.7
(15)	1580 KOTUG-1	132	5581 KOTU-DU1	220	1	-61	250	250	250	25.7
(16)	1690 HABAR-1	132	1700 ANURA-1	132	1	15	45	100	140	25.6
(17)	1560 PANNI-1	132	1570 BIYAG-1	132	1	-46	165	225	250	25.6
(18)	1560 PANNI-1	132	1570 BIYAG-1	132	2	-46	165	225	250	25.6
(19)	1100 LAX-1	132	1130 POLPI-1	132	1	40	45	100	140	25.6
(20)	1100 LAX-1	132	1130 POLPI-1	132	2	40	45	100	140	25.6
(21)	1530 THULH-1	132	5532 THULH-T2	132	2	-22	45	100	140	25.5
(22)	1530 THULH-1	132	5531 THULH-T1	132	1	-22	45	100	140	25.5
(23)	2570 BIYAG-2	220	2580 KOTUG-2	220	1	101	275	375	425	25.5
(24)	2570 BIYAG-2	220	2580 KOTUG-2	220	2	101	275	375	425	25.5
(25)	1700 ANURA-1	132	1770 KIRIB-1	132	1	-22	45	100	140	25.5
(26)	2220 KOTMA-2	220	2570 BIYAG-2	220	1	194	550	750	850	25.5
(27)	2220 KOTMA-2	220	2570 BIYAG-2	220	2	194	550	750	850	25.5
(28)	1550 KOLON-1	132	1560 PANNI-1	132	1	35	45	100	140	25.4
(29)	1550 KOLON-1	132	1560 PANNI-1	132	2	35	45	100	140	25.4
(30)	2220 KOTMA-2	220	2230 VICTO-2	220	1	-129	550	750	850	25.4
(31)	2220 KOTMA-2	220	2230 VICTO-2	220	2	-129	550	750	850	25.4
(32)	1170 SAMAN-1	132	1630 BALAN-1	132	1	38	165	225	250	25.4
(33)	1170 SAMAN-1	132	1630 BALAN-1	132	2	38	165	225	250	25.4
(34)	5531 THULH-T1	132	5541 ORUWA-T1	132	1	31	45	100	140	25.4
(35)	5532 THULH-T2	132	5542 ORUWA-T2	132	2	31	45	100	140	25.4
(36)	1550 KOLON-1	132	5542 ORUWA-T2	132	2	-31	45	100	140	25.4
(37)	1550 KOLON-1	132	5541 ORUWA-T1	132	1	-30	45	100	140	25.4
(38)	1110 N-LAX-1	132	1630 BALAN-1	132	1	12	45	100	140	25.4
(39)	1110 N-LAX-1	132	1630 BALAN-1	132	2	12	45	100	140	25.4
(40)	1100 LAX-1	132	1120 WIMAL-1	132	1	-12	45	100	140	25.4
(41)	1100 LAX-1	132	1120 WIMAL-1	132	2	-12	45	100	140	25.4
(42)	1100 LAX-1	132	1110 N-LAX-1	132	1	-10	45	100	140	25.4
(43)	1100 LAX-1	132	1110 N-LAX-1	132	2	-10	45	100	140	25.4
(44)	1680 KURUN-1	132	1770 KIRIB-1	132	1	-9	45	100	140	25.4
(45)	1680 KURUN-1	132	1770 KIRIB-1	132	2	-9	45	100	140	25.4
(46)	1130 POLPI-1	132	1220 KOTMA-1	132	1	14	45	100	140	25.4
(47)	1310 SAPUG-1P	132	1570 BIYAG-1	132	1	8	45	100	140	25.4
(48)	1310 SAPUG-1P	132	1570 BIYAG-1	132	2	8	45	100	140	25.4
(49)	1170 SAMAN-1	132	1660 EMBIL-1	132	1	6	105	140	160	25.4
(50)	1170 SAMAN-1	132	1660 EMBIL-1	132	2	6	105	140	160	25.4
(51)	1570 BIYAG-1	132	5571 BIYA-DU2	132	1	-65	250	250	250	25.4
(52)	1570 BIYAG-1	132	5570 BIYA-DU1	132	1	-65	250	250	250	25.4
(53)	2570 BIYAG-2	220	5571 BIYA-DU2	132	1	89	250	250	250	25.4
(54)	2570 BIYAG-2	220	5570 BIYA-DU1	132	1	89	250	250	250	25.4
(55)	3570 BIYAG-3	33.0	5570 BIYA-DU1	132	1	-24	60	60	60	25.4
(56)	3570 BIYAG-3	33.0	5571 BIYA-DU2	132	1	-24	60	60	60	25.4
(57)	1250 RANTE-1	132	5251 RANT-DU1	132	1	-17	35	35	35	25.4
(58)	1250 RANTE-1	132	5252 RANT-DU2	132	1	-17	35	35	35	25.4
(59)	3250 RANTE-3	33.0	5251 RANT-DU1	132	1	-5	10	10	10	25.4
(60)	3250 RANTE-3	33.0	5252 RANT-DU2	132	1	-5	10	10	10	25.4
(61)	1300 KELAN-1	132	1550 KOLON-1	132	1	5	57	170	225	25.4
(62)	1300 KELAN-1	132	1550 KOLON-1	132	2	5	57	170	225	25.4
(63)	1300 KELAN-1	132	1570 BIYAG-1	132	1	-27	300	400	460	25.3
(64)	1300 KELAN-1	132	1570 BIYAG-1	132	2	-27	300	400	460	25.3

# TABLE A6.2.1-2 Voltage Collapse Ranking of 1995 System

28 Nov 1995 Evening Peak Load  
Voltage collapse ranking

RANK	*** BRANCH		Voltage	Collapse	RANKING		BASED ON				1.00 OF RATING-B ***
	FROM BUS	TO BUS			KV	ID	FLOW	RATA	RATB	RATC	
( 1)	1220	KOTMA-1	132	1770	KIRIB-1	132 1	79	45	100	140	2.41
( 2)	2220	KOTMA-2	220	2570	BIYAG-2	220 1	194	550	750	850	2.18
( 3)	2220	KOTMA-2	220	2570	BIYAG-2	220 2	194	550	750	850	2.18
( 4)	3580	KOTUG-3	33.0	5581	KOTU-DU1	220 1	-40	60	60	60	2.18
( 5)	3580	KOTUG-3	33.0	5582	KOTU-DU2	220 1	-40	60	60	60	2.18
( 6)	1580	KOTUG-1	132	5582	KOTU-DU2	220 1	-61	250	250	250	1.99
( 7)	1580	KOTUG-1	132	5581	KOTU-DU1	220 1	-61	250	250	250	1.99
( 8)	1200	UKUWE-1	132	1690	HABAR-1	132 1	40	45	100	140	1.99
( 9)	2220	KOTMA-2	220	2230	VICTO-2	220 1	-129	550	750	850	1.91
(10)	2220	KOTMA-2	220	2230	VICTO-2	220 2	-129	550	750	850	1.91
(11)	1130	POLPI-1	132	1200	UKUWE-1	132 1	23	45	100	140	1.90
(12)	1130	POLPI-1	132	5531	THULH-T1	132 1	54	45	100	140	1.90
(13)	1130	POLPI-1	132	5532	THULH-T2	132 2	54	45	100	140	1.90
(14)	1130	POLPI-1	132	1550	KOLON-1	132 1	47	45	100	140	1.90
(15)	1130	POLPI-1	132	1550	KOLON-1	132 2	47	45	100	140	1.90
(16)	1700	ANURA-1	132	1770	KIRIB-1	132 1	-22	45	100	140	1.90
(17)	2570	BIYAG-2	220	2580	KOTUG-2	220 1	101	275	375	425	1.88
(18)	2570	BIYAG-2	220	2580	KOTUG-2	220 2	101	275	375	425	1.88
(19)	1690	HABAR-1	132	1700	ANURA-1	132 1	15	45	100	140	1.87
(20)	5531	THULH-T1	132	5541	ORUWA-T1	132 1	31	45	100	140	1.87
(21)	5532	THULH-T2	132	5542	ORUWA-T2	132 2	31	45	100	140	1.87
(22)	1550	KOLON-1	132	5542	ORUWA-T2	132 2	-31	45	100	140	1.87
(23)	1550	KOLON-1	132	5541	ORUWA-T1	132 1	-30	45	100	140	1.87
(24)	1130	POLPI-1	132	1220	KOTMA-1	132 1	14	45	100	140	1.87
(25)	1170	SAMAN-1	132	1630	BALAN-1	132 1	38	165	225	250	1.86
(26)	1170	SAMAN-1	132	1630	BALAN-1	132 2	38	165	225	250	1.86
(27)	1560	PANNI-1	132	1570	BIYAG-1	132 1	-46	165	225	250	1.86
(28)	1560	PANNI-1	132	1570	BIYAG-1	132 2	-46	165	225	250	1.86
(29)	1530	THULH-1	132	5532	THULH-T2	132 2	-22	45	100	140	1.86
(30)	1530	THULH-1	132	5531	THULH-T1	132 1	-22	45	100	140	1.86
(31)	1550	KOLON-1	132	1560	PANNI-1	132 1	35	45	100	140	1.86
(32)	1550	KOLON-1	132	1560	PANNI-1	132 2	35	45	100	140	1.86
(33)	1110	N-LAX-1	132	1130	POLPI-1	132 1	42	45	100	140	1.86
(34)	1110	N-LAX-1	132	1130	POLPI-1	132 2	42	45	100	140	1.86
(35)	1100	LAX-1	132	1130	POLPI-1	132 1	40	45	100	140	1.86
(36)	1100	LAX-1	132	1130	POLPI-1	132 2	40	45	100	140	1.86
(37)	1110	N-LAX-1	132	1630	BALAN-1	132 1	12	45	100	140	1.85
(38)	1110	N-LAX-1	132	1630	BALAN-1	132 2	12	45	100	140	1.85
(39)	1300	KELAN-1	132	1570	BIYAG-1	132 1	-27	300	400	460	1.85
(40)	1300	KELAN-1	132	1570	BIYAG-1	132 2	-27	300	400	460	1.85
(41)	1680	KURUN-1	132	1770	KIRIB-1	132 1	-9	45	100	140	1.85
(42)	1680	KURUN-1	132	1770	KIRIB-1	132 2	-9	45	100	140	1.85
(43)	1170	SAMAN-1	132	1660	EMBIL-1	132 1	6	105	140	160	1.85
(44)	1170	SAMAN-1	132	1660	EMBIL-1	132 2	6	105	140	160	1.85
(45)	1100	LAX-1	132	1120	WIMAL-1	132 1	-12	45	100	140	1.85
(46)	1100	LAX-1	132	1120	WIMAL-1	132 2	-12	45	100	140	1.85
(47)	1310	SAPUG-1P	132	1570	BIYAG-1	132 1	8	45	100	140	1.85
(48)	1310	SAPUG-1P	132	1570	BIYAG-1	132 2	8	45	100	140	1.85
(49)	1100	LAX-1	132	1110	N-LAX-1	132 1	-10	45	100	140	1.85
(50)	1100	LAX-1	132	1110	N-LAX-1	132 2	-10	45	100	140	1.85
(51)	1300	KELAN-1	132	1550	KOLON-1	132 1	5	57	170	225	1.85
(52)	1300	KELAN-1	132	1550	KOLON-1	132 2	5	57	170	225	1.85

TABLE A6.2.2-1 Overload Ranking of 2000 System

□ POWER SYSTEM ANALYSIS FOR YEAR 2000 NIGHT PEAK CONDITIONS  
 □ OVERLOAD RANKING OF CIRCUITS BASED ON EVENING (B) RATING  
 (NOTE RATING AND FLOW FIGURES ARE GIVEN IN MVA. 'RATA' IS DAY TIME, CYCLIC RATING 'RATB' IS EVENING CYCLIC RATING AND 'RATC' IS EMERGENCY SHORT TERM RATING. 'PI' IS A TPLAN CALCULATED INDEX)

□ \*\*\* BRANCH RANKING BASED ON 1.00 OF RATING-B \*\*\*

□	RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
□	( 1)	2230 VICTO-2	220	2240 RANDE-2	220	1	-97	550	750	850	24.6
□	( 2)	1630 BALAN-1	132	1655 N-GALL-1	132	1	47	40	80	110	20.4
□	( 3)	2220 KOTMA-2	220	2570 BIYAG-2	220	1	192	550	750	850	20.1
□	( 4)	2220 KOTMA-2	220	2570 BIYAG-2	220	2	192	550	750	850	20.1
□	( 5)	1130 POLPI-1	132	5502 AVIS-1T2	132	1	45	45	100	140	19.8
□	( 6)	1630 BALAN-1	132	1640 DENIY-1	132	1	56	40	80	110	19.7
□	( 7)	1130 POLPI-1	132	1510 SITHA-1	132	1	50	45	100	140	19.7
□	( 8)	1130 POLPI-1	132	5531 THULH-T1	132	1	54	45	100	140	19.6
□	( 9)	1130 POLPI-1	132	5532 THULH-T2	132	2	54	45	100	140	19.6
□	(10)	3570 BIYAG-3	33.0	5570 BIYA-DU1	132	1	-25	60	60	60	19.6
□	(11)	3570 BIYAG-3	33.0	5571 BIYA-DU2	132	1	-25	60	60	60	19.6
□	(12)	3580 KOTUG-3	33.0	5581 KOTU-DU1	220	1	-25	60	60	60	19.6
□	(13)	3580 KOTUG-3	33.0	5582 KOTU-DU2	220	1	-25	60	60	60	19.6
□	(14)	1160 INGIN-1	132	1620 BADUL-1	132	1	-23	45	100	130	19.5
□	(15)	2560 PANNI-2	220	5566 PANNI-D2	132	1	54	250	250	250	19.5
□	(16)	2560 PANNI-2	220	5565 PANNI-D1	132	1	54	250	250	250	19.5
□	(17)	1150 AMPA-1	132	1160 INGIN-1	132	1	-21	45	100	140	19.5
□	(18)	2220 KOTMA-2	220	2230 VICTO-2	220	1	-137	550	750	850	19.5
□	(19)	2220 KOTMA-2	220	2230 VICTO-2	220	2	-137	550	750	850	19.5
□	(20)	1560 PANNI-1	132	5566 PANNI-D2	132	1	-54	250	250	250	19.5
□	(21)	1560 PANNI-1	132	5565 PANNI-D1	132	1	-54	250	250	250	19.5
□	(22)	1110 N-LAX-1	132	1130 POLPI-1	132	1	46	45	100	140	19.5
□	(23)	1110 N-LAX-1	132	1130 POLPI-1	132	2	46	45	100	140	19.5
□	(24)	3250 RANTE-3	33.0	5251 RANT-DU1	132	1	-4	10	10	10	19.4
□	(25)	3250 RANTE-3	33.0	5252 RANT-DU2	132	1	-4	10	10	10	19.4
□	(26)	1100 LAX-1	132	1130 POLPI-1	132	1	44	45	100	140	19.4
□	(27)	1100 LAX-1	132	1130 POLPI-1	132	2	44	45	100	140	19.4
□	(28)	2560 PANNI-2	220	2570 BIYAG-2	220	1	-82	275	375	425	19.4
□	(29)	2560 PANNI-2	220	2570 BIYAG-2	220	2	-82	275	375	425	19.4
□	(30)	1310 SAPU-1P	132	1570 BIYAG-1	132	1	34	45	100	140	19.4
□	(31)	1310 SAPU-1P	132	1570 BIYAG-1	132	2	34	45	100	140	19.4
□	(32)	1550 KOLON-1	132	5502 AVIS-1T2	132	2	-30	45	100	140	19.4
□	(33)	1530 THULH-1	132	5532 THULH-T2	132	2	-26	45	100	140	19.4
□	(34)	1530 THULH-1	132	5531 THULH-T1	132	1	-26	45	100	140	19.4
□	(35)	1570 BIYAG-1	132	1590 SAPUG-1	132	1	79	165	225	255	19.3
□	(36)	1570 BIYAG-1	132	1590 SAPUG-1	132	2	79	165	225	255	19.3
□	(37)	1580 KOTUG-1	132	5581 KOTU-DU1	220	1	-47	250	250	250	19.3
□	(38)	1580 KOTUG-1	132	5582 KOTU-DU2	220	1	-47	250	250	250	19.3
□	(39)	1560 PANNI-1	132	1790 RATMA-1	132	1	30	45	100	140	19.3
□	(40)	1560 PANNI-1	132	1790 RATMA-1	132	2	30	45	100	140	19.3
□	(41)	1510 SITHA-1	132	5501 AVIS-1T1	132	1	33	45	100	140	19.3
□	(42)	1110 N-LAX-1	132	1630 BALAN-1	132	1	30	45	100	140	19.3
□	(43)	1110 N-LAX-1	132	1630 BALAN-1	132	2	30	45	100	140	19.3
□	(44)	1650 GALLE-1	132	1655 N-GALL-1	132	1	-22	40	80	110	19.3
□	(45)	1650 GALLE-1	132	1655 N-GALL-1	132	2	-22	40	80	110	19.3
□	(46)	2570 BIYAG-2	220	2580 KOTUG-2	220	1	72	275	375	425	19.3
□	(47)	2570 BIYAG-2	220	2580 KOTUG-2	220	2	72	275	375	425	19.3
□	(48)	1560 PANNI-1	132	5561 PANAD-T1	132	1	26	150	200	230	19.3
□	(49)	1560 PANNI-1	132	5562 PANAD-T2	132	2	26	150	200	230	19.3
□	(50)	1640 DENIY-1	132	1655 N-GALL-1	132	1	39	40	80	110	19.3
□	(51)	1550 KOLON-1	132	5501 AVIS-1T1	132	1	-30	45	100	140	19.3
□	(52)	1220 KOTMA-1	132	1770 KIRIB-1	132	1	25	45	100	140	19.3
□	(53)	1220 KOTMA-1	132	1770 KIRIB-1	132	2	25	45	100	140	19.3
□	(54)	1130 POLPI-1	132	1220 KOTMA-1	132	1	26	45	100	140	19.3
□	(55)	1130 POLPI-1	132	1220 KOTMA-1	132	2	26	45	100	140	19.3
□	(56)	1300 KELAN-1	132	1550 KOLON-1	132	1	45	57	170	225	19.3
□	(57)	1300 KELAN-1	132	1550 KOLON-1	132	2	45	57	170	225	19.3
□	(58)	2220 KOTMA-2	220	2705 N_ANUR-2	220	1	46	275	375	425	19.3
□	(59)	2220 KOTMA-2	220	2705 N_ANUR-2	220	2	46	275	375	425	19.3
□	(60)	1150 AMPA-1	132	1780 VALAI-1	132	1	10	45	100	140	19.2
□	(61)	1860 CHILL-1	132	5861 CHILL-T1	132	1	-16	45	100	140	19.2
□	(62)	1860 CHILL-1	132	5862 CHILL-T2	132	2	-16	45	100	140	19.2
□	(63)	1595 KHD -1	132	1870 K_NIYA-1	132	1	56	165	225	255	19.2
□	(64)	1595 KHD -1	132	1870 K_NIYA-1	132	2	56	165	225	255	19.2
□	(65)	1700 ANURA-1	132	1705 N_ANUR-1	132	1	-45	165	225	255	19.2



TABLE A6.2.2-2 Voltage Collapse Ranking of 2000 System

TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 2000 NIGHT RAINY SEASON PEAK  
 OPEN AT AMPARA

\*\*\* BRANCH Voltage Collapse RANKING BASED ON 1.00 OF RATING-B \*\*\*

RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
( 1)	3570 BIYAG-3	33.0	5570 BIYA-DU1	132	1	-25	60	60	60	2.07
( 2)	3570 BIYAG-3	33.0	5571 BIYA-DU2	132	1	-25	60	60	60	2.07
( 3)	1630 BALAN-1	132	1640 DENIY-1	132	1	56	40	80	110	2.05
( 4)	1630 BALAN-1	132	1655 N-GALL-1	132	1	47	40	80	110	2.02
( 5)	1640 DENIY-1	132	1655 N-GALL-1	132	1	39	40	80	110	2.00
( 6)	1580 KOTUG-1	132	5581 KOTU-DU1	220	1	-47	250	250	250	1.99
( 7)	1580 KOTUG-1	132	5582 KOTU-DU2	220	1	-47	250	250	250	1.99
( 8)	1130 POLPI-1	132	5531 THULH-T1	132	1	55	45	100	140	1.99
( 9)	1130 POLPI-1	132	5532 THULH-T2	132	2	55	45	100	140	1.99
(10)	1570 BIYAG-1	132	5571 BIYA-DU2	132	1	-45	250	250	250	1.98
(11)	1570 BIYAG-1	132	5570 BIYA-DU1	132	1	-45	250	250	250	1.98
(12)	1130 POLPI-1	132	1510 SITHA-1	132	1	50	45	100	140	1.98
(13)	1130 POLPI-1	132	5502 AVIS-1T2	132	1	45	45	100	140	1.97
(14)	2560 PANNI-2	220	5565 PANNI-D1	132	1	54	250	250	250	1.97
(15)	2560 PANNI-2	220	5566 PANNI-D2	132	1	54	250	250	250	1.97
(16)	1250 RANTE-1	132	2250 RANTE-2	220	1	-21	105	105	105	1.97
(17)	1705 N_ANUR-1	132	2705 N_ANUR-2	220	1	-47	300	300	300	1.97
(18)	1705 N_ANUR-1	132	2705 N_ANUR-2	220	2	-47	300	300	300	1.97
(19)	1250 RANTE-1	132	1620 BADUL-1	132	2	34	45	100	140	1.96
(20)	1560 PANNI-1	132	5566 PANNI-D2	132	1	-54	250	250	250	1.96
(21)	1560 PANNI-1	132	5565 PANNI-D1	132	1	-54	250	250	250	1.96
(22)	2300 KELAN-2	220	5300 KELAN-D2	132	1	29	150	150	150	1.96
(23)	2300 KELAN-2	220	5301 KELAN-D1	132	1	29	150	150	150	1.96
(24)	1200 UKUWE-1	132	1690 HABAR-1	132	1	21	45	100	140	1.96
(25)	1110 N-LAX-1	132	1630 BALAN-1	132	1	31	45	100	140	1.96
(26)	1110 N-LAX-1	132	1630 BALAN-1	132	2	31	45	100	140	1.96
(27)	1560 PANNI-1	132	5562 PANAD-T2	132	2	26	150	200	230	1.96
(28)	1560 PANNI-1	132	5561 PANAD-T1	132	1	26	150	200	230	1.96
(29)	1510 SITHA-1	132	5501 AVIS-1T1	132	1	34	45	100	140	1.96
(30)	1250 RANTE-1	132	1620 BADUL-1	132	1	29	105	140	160	1.96
(31)	1300 KELAN-1	132	5300 KELAN-D2	132	1	-29	150	150	150	1.96
(32)	1300 KELAN-1	132	5301 KELAN-D1	132	1	-29	150	150	150	1.96
(33)	1550 KOLON-1	132	5502 AVIS-1T2	132	2	-31	45	100	140	1.96
(34)	1550 KOLON-1	132	5501 AVIS-1T1	132	1	-31	45	100	140	1.96
(35)	1170 SAMAN-1	132	1630 BALAN-1	132	1	38	165	225	250	1.96
(36)	1170 SAMAN-1	132	1630 BALAN-1	132	2	38	165	225	250	1.96
(37)	1820 ATHUR-1	132	5531 THULH-T1	132	1	-28	45	100	140	1.96
(38)	1820 ATHUR-1	132	5532 THULH-T2	132	2	-28	45	100	140	1.96
(39)	1530 THULH-1	132	5531 THULH-T1	132	1	-26	45	100	140	1.96
(40)	1530 THULH-1	132	5532 THULH-T2	132	2	-26	45	100	140	1.96
(41)	1700 ANURA-1	132	1810 PUTTA-1	132	1	14	45	100	140	1.96
(42)	1700 ANURA-1	132	1810 PUTTA-1	132	2	14	45	100	140	1.96
(43)	1700 ANURA-1	132	5720 KILIN-T1	132	1	7	45	100	140	1.95
(44)	1700 ANURA-1	132	5721 KILIN-T2	132	2	7	45	100	140	1.95
(45)	1130 POLPI-1	132	1220 KOTMA-1	132	1	28	45	100	140	1.95
(46)	1130 POLPI-1	132	1220 KOTMA-1	132	2	28	45	100	140	1.95
(47)	1170 SAMAN-1	132	1660 EMBIL-1	132	1	22	105	140	160	1.95
(48)	1170 SAMAN-1	132	1660 EMBIL-1	132	2	22	105	140	160	1.95
(49)	1690 HABAR-1	132	1700 ANURA-1	132	1	-14	45	100	140	1.95
(50)	1580 KOTUG-1	132	1600 BOLAW-1	132	1	38	165	225	255	1.95
(51)	1580 KOTUG-1	132	1600 BOLAW-1	132	2	38	165	225	255	1.95
(52)	1220 KOTMA-1	132	1770 KIRIB-1	132	1	28	45	100	140	1.95
(53)	1220 KOTMA-1	132	1770 KIRIB-1	132	2	28	45	100	140	1.95
(54)	1660 EMBIL-1	132	1670 MATAR-1	132	1	17	45	100	140	1.95
(55)	1660 EMBIL-1	132	1670 MATAR-1	132	2	17	45	100	140	1.95
(56)	1110 N-LAX-1	132	1130 POLPI-1	132	1	47	45	100	140	1.95
(57)	1110 N-LAX-1	132	1130 POLPI-1	132	2	47	45	100	140	1.95
(58)	1800 MATUG-1	132	5561 PANAD-T1	132	1	-12	150	200	230	1.95
(59)	1800 MATUG-1	132	5562 PANAD-T2	132	2	-12	150	200	230	1.95
(60)	1100 LAX-1	132	1130 POLPI-1	132	1	45	45	100	140	1.95
(61)	1100 LAX-1	132	1130 POLPI-1	132	2	45	45	100	140	1.95
(62)	1300 KELAN-1	132	1550 KOLON-1	132	1	45	57	170	225	1.95
(63)	1300 KELAN-1	132	1550 KOLON-1	132	2	45	57	170	225	1.95
(64)	1850 PANAD-1	132	5561 PANAD-T1	132	1	-14	45	100	140	1.95
(65)	1850 PANAD-1	132	5562 PANAD-T2	132	2	-14	45	100	140	1.95

TABLE A6.2.3-1 Overload Ranking of 2005 System

O TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 O POWER SYSTEM ANALYSIS FOR YEAR 2005  
 O NIGHT PEAK CONDITIONS / RAINY SEASON  
 O

\*\*\* BRANCH OVERLOAD RANKING BASED ON 1.00 OF RATING-8 \*\*\*

RANK	FROM	BUS	KV	TO	BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
1	2230	VICTO-2	220	2240	RANDE-2	220	1	-92	550	750	850	29.6
2	1650	GALLE-1	132	3650	GALLE-3	33.0	1	32	60	60	60	28.0
3	1130	POLPI-1	132	5502	AVIS-1T2	132	1	53	45	100	140	26.8
4	1130	POLPI-1	132	1510	SITHA-1	132	1	59	45	100	140	26.7
5	3580	KOTUG-3	33.0	5581	KOTU-DU1	220	1	-32	60	60	60	26.7
6	3580	KOTUG-3	33.0	5582	KOTU-DU2	220	1	-32	60	60	60	26.7
7	2220	KOTMA-2	220	2570	BIYAG-2	220	1	179	550	750	850	26.6
8	2220	KOTMA-2	220	2570	BIYAG-2	220	2	179	550	750	850	26.6
9	1480	MEDEGA-1	132	1620	BADUL-1	132	1	-29	45	100	130	26.6
10	1160	INGIN-1	132	1480	MEDEGA-1	132	1	-25	45	100	130	26.4
11	1150	AMPA-1	132	1160	INGIN-1	132	1	-24	45	100	140	26.4
12	1570	BIYAG-1	132	1590	SAPUG-1	132	1	117	165	225	255	26.4
13	1570	BIYAG-1	132	1590	SAPUG-1	132	2	117	165	225	255	26.4
14	1130	POLPI-1	132	5531	THULH-T1	132	1	60	45	100	140	26.4
15	1130	POLPI-1	132	5532	THULH-T2	132	2	60	45	100	140	26.4
16	1560	PANNI-1	132	5566	PANNI-D2	132	1	-67	250	250	250	26.3
17	1560	PANNI-1	132	5565	PANNI-D1	132	1	-67	250	250	250	26.3
18	1110	N-LAX-1	132	1630	BALAN-1	132	1	30	45	100	140	26.3
19	1110	N-LAX-1	132	1630	BALAN-1	132	2	30	45	100	140	26.3
20	2560	PANNI-2	220	5566	PANNI-D2	132	1	67	250	250	250	26.3
21	2560	PANNI-2	220	5565	PANNI-D1	132	1	67	250	250	250	26.3
22	1560	PANNI-1	132	1790	RATMA-1	132	1	38	45	100	140	26.3
23	1560	PANNI-1	132	1790	RATMA-1	132	2	38	45	100	140	26.3
24	1580	KOTUG-1	132	5582	KOTU-DU2	220	1	-62	250	250	250	26.2
25	1580	KOTUG-1	132	5581	KOTU-DU1	220	1	-62	250	250	250	26.2
26	2220	KOTMA-2	220	2230	VICTO-2	220	1	-150	550	750	850	26.2
27	2220	KOTMA-2	220	2230	VICTO-2	220	2	-150	550	750	850	26.2
28	2560	PANNI-2	220	2570	BIYAG-2	220	1	-112	275	375	425	26.2
29	2560	PANNI-2	220	2570	BIYAG-2	220	2	-112	275	375	425	26.2
30	1110	N-LAX-1	132	1130	POLPI-1	132	1	42	45	100	140	26.2
31	1110	N-LAX-1	132	1130	POLPI-1	132	2	42	45	100	140	26.2
32	1550	KOLON-1	132	2550	KOLON-2	220	1	-56	150	150	150	26.2
33	1550	KOLON-1	132	2550	KOLON-2	220	2	-56	150	150	150	26.2
34	1220	KOTMA-1	132	1770	KIRIB-1	132	1	35	45	100	140	26.2
35	1220	KOTMA-1	132	1770	KIRIB-1	132	2	35	45	100	140	26.2
36	2805	PUTTA-P2	220	2865	N_CHIL-2	220	1	149	1100	1500	1700	26.2
37	2805	PUTTA-P2	220	2865	N_CHIL-2	220	2	149	1100	1500	1700	26.2
38	1800	MATUG-1	132	5422	HORAN-D2	132	1	17	150	200	230	26.2
39	1420	HORAN-1	132	5422	HORAN-D2	132	1	-17	144	185	200	26.2
40	1630	BALAN-1	132	1640	DENIY-1	132	1	35	40	80	110	26.2
41	1650	GALLE-1	132	1655	N-GALL-1	132	1	-26	40	80	110	26.2
42	1650	GALLE-1	132	1655	N-GALL-1	132	2	-26	40	80	110	26.2
43	1410	KUKULE-1	132	1800	MATUG-1	132	1	40	144	185	200	26.2
44	1410	KUKULE-1	132	1800	MATUG-1	132	2	40	144	185	200	26.2
45	1550	KOLON-1	132	5502	AVIS-1T2	132	2	-32	45	100	140	26.2
46	1510	SITHA-1	132	5501	AVIS-1T1	132	1	40	45	100	140	26.2
47	1460	POLON-1	132	1690	HABAR-1	132	1	-14	45	100	140	26.2
48	2830	VEYAN-2	220	2865	N_CHIL-2	220	1	-99	1100	1500	1700	26.2
49	2830	VEYAN-2	220	2865	N_CHIL-2	220	2	-99	1100	1500	1700	26.2
50	1630	BALAN-1	132	1655	N-GALL-1	132	1	23	40	80	110	26.2
51	1590	SAPUG-1	132	1595	KHD -1	132	1	73	165	225	255	26.1
52	1590	SAPUG-1	132	1595	KHD -1	132	2	73	165	225	255	26.1
53	1240	VAVUNI-1	132	5720	KILIN-T1	132	1	22	45	100	140	26.1
54	1240	VAVUNI-1	132	5721	KILIN-T2	132	2	22	45	100	140	26.1
55	1200	UKUWE-1	132	1690	HABAR-1	132	1	20	45	100	140	26.1
56	1100	LAX-1	132	1130	POLPI-1	132	1	40	45	100	140	26.1
57	1100	LAX-1	132	1130	POLPI-1	132	2	40	45	100	140	26.1
58	1310	SAPU-1P	132	1570	BIYAG-1	132	1	29	45	100	140	26.1
59	1310	SAPU-1P	132	1570	BIYAG-1	132	2	29	45	100	140	26.1
60	1890	DEHIWA-1	132	5891	DEHI-DU1	132	1	-44	250	250	250	26.1
61	1890	DEHIWA-1	132	5892	DEHI-DU2	132	2	-44	250	250	250	26.1
62	1800	MATUG-1	132	5564	PANAD-D4	132	1	18	150	200	230	26.1
63	1850	PANAD-1	132	5564	PANAD-D4	132	1	-18	45	100	140	26.1
64	1500	AVISS-1	132	5502	AVIS-1T2	132	2	-20	45	100	140	26.1
65	1170	SAMAN-1	132	1660	EMBIL-1	132	1	33	105	140	160	26.1

TABLE A6.2.3-2 Voltage Collapse Ranking of 2005 System

Q TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 Q POWER SYSTEM ANALYSIS FOR YEAR 2005  
 Q NIGHT PEAK CONDITIONS / RAINY SEASON

Q

\*\*\* BRANCH Voltage Collapse RANKING BASED ON 1.00 OF RATING-B \*\*\*

Q RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
Q ( 1)	2220 KOTMA-2	220	2570 BIYAG-2	220	1	179	550	750	850	3.06
Q ( 2)	2220 KOTMA-2	220	2570 BIYAG-2	220	2	179	550	750	850	3.06
Q ( 3)	3580 KOTUG-3	33.0	5581 KOTU-DU1	220	1	-32	60	60	60	3.05
Q ( 4)	3580 KOTUG-3	33.0	5582 KOTU-DU2	220	1	-32	60	60	60	3.05
Q ( 5)	2805 PUTTA-P2	220	2865 N_CHIL-2	220	1	149	1100	1500	1700	2.96
Q ( 6)	2805 PUTTA-P2	220	2865 N_CHIL-2	220	2	149	1100	1500	1700	2.96
Q ( 7)	2230 VICTO-2	220	2240 RANDE-2	220	1	-92	550	750	850	2.93
Q ( 8)	2220 KOTMA-2	220	2230 VICTO-2	220	1	-150	550	750	850	2.92
Q ( 9)	2220 KOTMA-2	220	2230 VICTO-2	220	2	-150	550	750	850	2.92
Q ( 10)	1480 MEDEGA-1	132	1620 BADUL-1	132	1	-29	45	100	130	2.92
Q ( 11)	1580 KOTUG-1	132	5582 KOTU-DU2	220	1	-62	250	250	250	2.90
Q ( 12)	1580 KOTUG-1	132	5581 KOTU-DU1	220	1	-62	250	250	250	2.90
Q ( 13)	1160 INGIN-1	132	1480 MEDEGA-1	132	1	-25	45	100	130	2.90
Q ( 14)	1650 GALLE-1	132	3650 GALLE-3	33.0	1	32	60	60	60	2.90
Q ( 15)	1150 AMPA-1	132	1160 INGIN-1	132	1	-24	45	100	140	2.90
Q ( 16)	1130 POLPI-1	132	5531 THULH-T1	132	1	60	45	100	140	2.89
Q ( 17)	1130 POLPI-1	132	5532 THULH-T2	132	2	60	45	100	140	2.89
Q ( 18)	1130 POLPI-1	132	1510 SITHA-1	132	1	59	45	100	140	2.89
Q ( 19)	2240 RANDE-2	220	2250 RANTE-2	220	1	30	550	750	850	2.88
Q ( 20)	1130 POLPI-1	132	5502 AVIS-1T2	132	1	53	45	100	140	2.88
Q ( 21)	2560 PANNI-2	220	2570 BIYAG-2	220	1	-112	275	375	425	2.88
Q ( 22)	2560 PANNI-2	220	2570 BIYAG-2	220	2	-112	275	375	425	2.88
Q ( 23)	1630 BALAN-1	132	1640 DENIY-1	132	1	35	40	80	110	2.88
Q ( 24)	1865 N_CHIL-1	132	2865 N_CHIL-2	220	1	-50	150	150	150	2.87
Q ( 25)	1865 N_CHIL-1	132	2865 N_CHIL-2	220	2	-50	150	150	150	2.87
Q ( 26)	2220 KOTMA-2	220	2705 N_ANUR-2	220	1	39	275	375	425	2.87
Q ( 27)	2220 KOTMA-2	220	2705 N_ANUR-2	220	2	39	275	375	425	2.87
Q ( 28)	1730 CHUNN-1	132	5720 KILIN-T1	132	1	-16	45	100	140	2.87
Q ( 29)	1730 CHUNN-1	132	5721 KILIN-T2	132	2	-16	45	100	140	2.87
Q ( 30)	1250 RANTE-1	132	1620 BADUL-1	132	2	38	45	100	140	2.87
Q ( 31)	1550 KOLON-1	132	2550 KOLON-2	220	1	-56	150	150	150	2.87
Q ( 32)	1550 KOLON-1	132	2550 KOLON-2	220	2	-56	150	150	150	2.87
Q ( 33)	1805 PUTTA-P1	132	1810 PUTTA-1	132	1	61	332	451	508	2.87
Q ( 34)	1805 PUTTA-P1	132	1810 PUTTA-1	132	2	61	332	451	508	2.87
Q ( 35)	1570 BIYAG-1	132	1590 SAPUG-1	132	1	117	165	225	255	2.87
Q ( 36)	1570 BIYAG-1	132	1590 SAPUG-1	132	2	117	165	225	255	2.87
Q ( 37)	1510 SITHA-1	132	5501 AVIS-1T1	132	1	40	45	100	140	2.87
Q ( 38)	2560 PANNI-2	220	5566 PANNI-D2	132	1	67	250	250	250	2.86
Q ( 39)	2560 PANNI-2	220	5565 PANNI-D1	132	1	67	250	250	250	2.86
Q ( 40)	1650 GALLE-1	132	3650 GALLE-3	33.0	2	20	32	32	32	2.86
Q ( 41)	1250 RANTE-1	132	1620 BADUL-1	132	1	33	105	140	160	2.86
Q ( 42)	1600 BOLAW-1	132	1865 N_CHIL-1	132	1	-26	45	100	140	2.86
Q ( 43)	1600 BOLAW-1	132	1865 N_CHIL-1	132	2	-26	45	100	140	2.86
Q ( 44)	1805 PUTTA-P1	132	2805 PUTTA-P2	220	1	-61	250	250	250	2.86
Q ( 45)	1805 PUTTA-P1	132	2805 PUTTA-P2	220	2	-61	250	250	250	2.86
Q ( 46)	1820 ATHUR-1	132	5531 THULH-T1	132	1	-32	45	100	140	2.86
Q ( 47)	1820 ATHUR-1	132	5532 THULH-T2	132	2	-32	45	100	140	2.86
Q ( 48)	2830 VEYAN-2	220	2865 N_CHIL-2	220	1	-99	1100	1500	1700	2.86
Q ( 49)	2830 VEYAN-2	220	2865 N_CHIL-2	220	2	-99	1100	1500	1700	2.86
Q ( 50)	1170 SAMAN-1	132	1660 EMBIL-1	132	1	33	105	140	160	2.86
Q ( 51)	1170 SAMAN-1	132	1660 EMBIL-1	132	2	33	105	140	160	2.86
Q ( 52)	1410 KUKULE-1	132	1800 MATUG-1	132	1	40	144	185	200	2.86
Q ( 53)	1410 KUKULE-1	132	1800 MATUG-1	132	2	40	144	185	200	2.86
Q ( 54)	1240 VAVUNI-1	132	1700 ANURA-1	132	1	-25	45	100	140	2.86
Q ( 55)	1240 VAVUNI-1	132	1700 ANURA-1	132	2	-25	45	100	140	2.86
Q ( 56)	1110 N-LAX-1	132	1630 BALAN-1	132	1	30	45	100	140	2.86
Q ( 57)	1110 N-LAX-1	132	1630 BALAN-1	132	2	30	45	100	140	2.86
Q ( 58)	1240 VAVUNI-1	132	5720 KILIN-T1	132	1	22	45	100	140	2.86
Q ( 59)	1240 VAVUNI-1	132	5721 KILIN-T2	132	2	22	45	100	140	2.86
Q ( 60)	1200 UKUWE-1	132	1690 HABAR-1	132	1	20	45	100	140	2.86
Q ( 61)	1560 PANNI-1	132	5565 PANNI-D1	132	1	-67	250	250	250	2.86
Q ( 62)	1560 PANNI-1	132	5566 PANNI-D2	132	1	-67	250	250	250	2.86
Q ( 63)	1630 BALAN-1	132	1655 N-GALL-1	132	1	23	40	80	110	2.86
Q ( 64)	2570 BIYAG-2	220	2580 KOTUG-2	220	1	-38	275	375	425	2.86
Q ( 65)	2570 BIYAG-2	220	2580 KOTUG-2	220	2	-38	275	375	425	2.86

TABLE A6.2.4-1 Overload Ranking of 2010 System

□ TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 □ POWER SYSTEM ANALYSIS FOR YEAR 2010  
 □ RAINY SEASON NIGHT PEAK WITH SPLIT ON AMPARA

□ \*\*\* BRANCH OVERLOAD RANKING BASED ON 1.00 OF RATING-B \*\*\*

□	RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
□	( 1)	1650 GALLE-1	132	3650 GALLE-3	33.0	1	41	60	60	60	44.4
□	( 2)	2230 VICTO-2	220	2240 RANDE-2	220	1	-77	550	750	850	43.5
□	( 3)	2690 N_HABA-2	220	2715 TRINC-P2	220	1	-276	1100	1500	1700	42.6
□	( 4)	2690 N_HABA-2	220	2715 TRINC-P2	220	2	-276	1100	1500	1700	42.6
□	( 5)	1135 N-POLP-1	132	1500 AVISS-1	132	1	59	45	100	140	41.8
□	( 6)	2550 KOLON-2	220	5552 KOLON-D2	132	2	86	250	250	250	41.8
□	( 7)	2550 KOLON-2	220	5551 KOLON-D1	132	1	86	250	250	250	41.8
□	( 8)	1550 KOLON-1	132	5552 KOLON-D2	132	2	-86	250	250	250	41.8
□	( 9)	1550 KOLON-1	132	5551 KOLON-D1	132	1	-86	250	250	250	41.8
□	(10)	1570 BIYAG-1	132	5570 BIYA-DU1	132	1	-84	250	250	250	41.7
□	(11)	2560 PANNI-2	220	5566 PANNI-D2	132	1	110	250	250	250	41.7
□	(12)	2560 PANNI-2	220	5567 PANNI-D3	132	1	110	250	250	250	41.7
□	(13)	2560 PANNI-2	220	5565 PANNI-D1	132	1	110	250	250	250	41.7
□	(14)	2830 VEYAN-2	220	2865 N_CHIL-2	220	1	-139	825	1125	1275	41.6
□	(15)	2830 VEYAN-2	220	2865 N_CHIL-2	220	2	-139	825	1125	1275	41.6
□	(16)	1800 MATUG-1	132	5422 HORAN-D2	132	1	36	150	200	230	41.6
□	(17)	1420 HORAN-1	132	5422 HORAN-D2	132	1	-35	144	185	200	41.6
□	(18)	2690 N_HABA-2	220	2900 WARIYA-2	220	1	161	1100	1500	1700	41.6
□	(19)	2690 N_HABA-2	220	2900 WARIYA-2	220	2	161	1100	1500	1700	41.6
□	(20)	1800 MATUG-1	132	5564 PANAD-D4	132	1	42	150	200	230	41.6
□	(21)	1850 PANAD-1	132	5564 PANAD-D4	132	1	-42	106	140	158	41.6
□	(22)	1560 PANNI-1	132	1790 RATHA-1	132	1	46	45	100	140	41.5
□	(23)	1560 PANNI-1	132	1790 RATHA-1	132	2	46	45	100	140	41.5
□	(24)	2830 VEYAN-2	220	2900 WARIYA-2	220	1	-160	1100	1500	1700	41.5
□	(25)	2830 VEYAN-2	220	2900 WARIYA-2	220	2	-160	1100	1500	1700	41.5
□	(26)	2220 KOTMA-2	220	2570 BIYAG-2	220	1	160	550	750	850	41.5
□	(27)	2220 KOTMA-2	220	2570 BIYAG-2	220	2	160	550	750	850	41.5
□	(28)	1360 BOOS-1	132	2360 BOOS-2	220	1	-72	150	150	150	41.5
□	(29)	1360 BOOS-1	132	2360 BOOS-2	220	2	-72	150	150	150	41.5
□	(30)	1310 SAPU-1P	132	1590 SAPUG-1	132	1	111	165	225	255	41.5
□	(31)	1310 SAPU-1P	132	1590 SAPUG-1	132	2	111	165	225	255	41.5
□	(32)	1715 TRINC-P1	132	2715 TRINC-P2	220	1	-96	150	150	150	41.5
□	(33)	1715 TRINC-P1	132	2715 TRINC-P2	220	2	-96	150	150	150	41.5
□	(34)	1650 GALLE-1	132	1655 N-GALL-1	132	1	-33	40	80	110	41.5
□	(35)	1650 GALLE-1	132	1655 N-GALL-1	132	2	-33	40	80	110	41.5
□	(36)	1135 N-POLP-1	132	2135 N-POLP-2	220	1	-84	500	500	500	41.4
□	(37)	1705 N_ANUR-1	132	2705 N_ANUR-2	220	1	-37	300	300	300	41.4
□	(38)	1830 VEYAN-1	132	2830 VEYAN-2	220	1	-55	150	150	150	41.4
□	(39)	1830 VEYAN-1	132	2830 VEYAN-2	220	2	-55	150	150	150	41.4
□	(40)	1830 VEYAN-1	132	2830 VEYAN-2	220	3	-55	150	150	150	41.4
□	(41)	1860 CHILL-1	132	1865 N_CHIL-1	132	1	-36	45	100	140	41.4
□	(42)	1860 CHILL-1	132	1865 N_CHIL-1	132	2	-36	45	100	140	41.4
□	(43)	1530 THULH-1	132	1830 VEYAN-1	132	1	-47	165	225	255	41.4
□	(44)	1530 THULH-1	132	1830 VEYAN-1	132	2	-47	165	225	255	41.4
□	(45)	1110 N-LAX-1	132	1630 BALAN-1	132	1	25	45	100	140	41.3
□	(46)	1110 N-LAX-1	132	1630 BALAN-1	132	2	25	45	100	140	41.3
□	(47)	1570 BIYAG-1	132	5571 BIYA-DU2	132	1	-84	250	250	250	41.3
□	(48)	1800 MATUG-1	132	5801 MATU-DU1	220	1	-37	150	150	150	41.3
□	(49)	1800 MATUG-1	132	5802 MATU-DU2	220	2	-37	150	150	150	41.3
□	(50)	1560 PANNI-1	132	5261 KESBE-D1	132	1	46	150	200	230	41.3
□	(51)	1560 PANNI-1	132	5262 KESBE-D2	132	1	46	150	200	230	41.3
□	(52)	1260 KESBE-1	132	5261 KESBE-D1	132	1	-46	115	145	158	41.3
□	(53)	1260 KESBE-1	132	5262 KESBE-D2	132	1	-46	115	145	158	41.3
□	(54)	1100 LAX-1	132	5522 NUWAR-T2	132	2	21	45	100	140	41.3
□	(55)	1100 LAX-1	132	5521 NUWAR-T1	132	1	21	45	100	140	41.3
□	(56)	2800 MATUG-2	220	5801 MATU-DU1	220	1	37	150	150	150	41.3
□	(57)	2800 MATUG-2	220	5802 MATU-DU2	220	2	37	150	150	150	41.3
□	(58)	1135 N-POLP-1	132	1510 SITHA-1	132	1	62	45	100	140	41.3
□	(59)	2580 KOTUG-2	220	2830 VEYAN-2	220	1	-141	550	750	850	41.3
□	(60)	2580 KOTUG-2	220	2830 VEYAN-2	220	2	-141	550	750	850	41.3
□	(61)	1310 SAPU-1P	132	1570 BIYAG-1	132	1	-82	165	225	255	41.3
□	(62)	1310 SAPU-1P	132	1570 BIYAG-1	132	2	-82	165	225	255	41.3
□	(63)	1350 MATAL-1	132	1690 HABAR-1	132	1	13	45	100	140	41.3
□	(64)	2300 KELAN-2	220	5301 KELAN-D1	132	1	-31	150	150	150	41.3
□	(65)	2300 KELAN-2	220	5300 KELAN-D2	132	1	-31	150	150	150	41.3

TABLE A6.2.4-2 Voltage Collapse Ranking of 2010 System

TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 POWER SYSTEM ANALYSIS FOR YEAR 2010  
 RAINY SEASON NIGHT PEAK WITH SPLIT ON AMPARA

*** BRANCH Voltage Collapse RANKING BASED ON 1.00 OF RATING-B ***											
RANK	FROM	BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATS	RATC	PI
( 1)	2690	N_HABA-2	220	2715 TRINC-P2	220	1	-276	1100	1500	1700	6.40
( 2)	2690	N_HABA-2	220	2715 TRINC-P2	220	2	-276	1100	1500	1700	6.40
( 3)	2815	PUTTA-P2	220	2865 N_CHIL-2	220	1	251	825	1125	1275	6.17
( 4)	2815	PUTTA-P2	220	2865 N_CHIL-2	220	2	251	825	1125	1275	6.17
( 5)	2690	N_HABA-2	220	2900 WARIYA-2	220	1	161	1100	1500	1700	5.93
( 6)	2690	N_HABA-2	220	2900 WARIYA-2	220	2	161	1100	1500	1700	5.93
( 7)	2230	VICTO-2	220	2240 RANDE-2	220	1	-77	550	750	850	5.92
( 8)	2220	KOTMA-2	220	2570 BIYAG-2	220	1	160	550	750	850	5.90
( 9)	2220	KOTMA-2	220	2570 BIYAG-2	220	2	160	550	750	850	5.90
(10)	1570	BIYAG-1	132	5571 BIYA-DU2	132	1	-84	250	250	250	5.90
(11)	2830	VEYAN-2	220	2900 WARIYA-2	220	1	-160	1100	1500	1700	5.90
(12)	2830	VEYAN-2	220	2900 WARIYA-2	220	2	-160	1100	1500	1700	5.90
(13)	2580	KOTUG-2	220	5583 KOTU-DU3	220	1	82	250	250	250	5.89
(14)	3580	KOTUG-3	33.0	5583 KOTU-DU3	220	1	-26	60	60	60	5.89
(15)	1580	KOTUG-1	132	5583 KOTU-DU3	220	1	-56	250	250	250	5.86
(16)	1690	HABAR-1	132	1700 ANURA-1	132	1	-56	45	100	140	5.85
(17)	1650	GALLE-1	132	3650 GALLE-3	33.0	1	41	60	60	60	5.84
(18)	1570	BIYAG-1	132	5572 BIYA-DU2	132	1	-84	250	250	250	5.83
(19)	2570	BIYAG-2	220	5572 BIYA-DU2	132	1	112	250	250	250	5.83
(20)	1135	N-POLP-1	132	1500 AVISS-1	132	1	59	45	100	140	5.83
(21)	2350	MATAL-2	220	2690 N_HABA-2	220	1	-95	275	375	425	5.83
(22)	2350	MATAL-2	220	2690 N_HABA-2	220	2	-95	275	375	425	5.83
(23)	2135	N-POLP-2	220	2230 VICTO-2	220	1	-115	550	750	850	5.82
(24)	2135	N-POLP-2	220	2230 VICTO-2	220	2	-115	550	750	850	5.82
(25)	1715	TRINC-P1	132	2715 TRINC-P2	220	1	-96	150	150	150	5.82
(26)	1715	TRINC-P1	132	2715 TRINC-P2	220	2	-96	150	150	150	5.82
(27)	2550	KOLON-2	220	5552 KOLON-D2	132	2	86	250	250	250	5.82
(28)	2550	KOLON-2	220	5551 KOLON-D1	132	1	86	250	250	250	5.82
(29)	1700	ANURA-1	132	1710 TRINC-1	132	1	-45	45	100	140	5.82
(30)	1700	ANURA-1	132	1710 TRINC-1	132	2	-45	45	100	140	5.82
(31)	1720	KILIN-1	132	1730 CHUNN-1	132	1	24	45	100	140	5.81
(32)	1720	KILIN-1	132	1730 CHUNN-1	132	2	24	45	100	140	5.81
(33)	2830	VEYAN-2	220	2865 N_CHIL-2	220	1	-139	825	1125	1275	5.81
(34)	2830	VEYAN-2	220	2865 N_CHIL-2	220	2	-139	825	1125	1275	5.81
(35)	1135	N-POLP-1	132	1510 SITHA-1	132	1	62	45	100	140	5.81
(36)	1710	TRINC-1	132	1720 KILIN-1	132	1	33	115	145	158	5.81
(37)	1710	TRINC-1	132	1720 KILIN-1	132	2	33	115	145	158	5.81
(38)	2560	PANNI-2	220	5565 PANNI-D1	132	1	110	250	250	250	5.80
(39)	2560	PANNI-2	220	5566 PANNI-D2	132	1	110	250	250	250	5.80
(40)	2560	PANNI-2	220	5567 PANNI-D3	132	1	110	250	250	250	5.80
(41)	1130	POLPI-1	132	1380 JUNC-1	132	1	67	45	100	140	5.80
(42)	1130	POLPI-1	132	1380 JUNC-1	132	2	67	45	100	140	5.80
(43)	1865	N_CHIL-1	132	2865 N_CHIL-2	220	1	-75	150	150	150	5.80
(44)	1865	N_CHIL-1	132	2865 N_CHIL-2	220	2	-75	150	150	150	5.80
(45)	1865	N_CHIL-1	132	2865 N_CHIL-2	220	3	-75	150	150	150	5.80
(46)	1135	N-POLP-1	132	2135 N-POLP-2	220	1	-84	500	500	500	5.80
(47)	1550	KOLON-1	132	5551 KOLON-D1	132	1	-86	250	250	250	5.80
(48)	1550	KOLON-1	132	5552 KOLON-D2	132	2	-86	250	250	250	5.80
(49)	3570	BIYAG-3	33.0	5572 BIYA-DU2	132	1	-29	60	60	60	5.79
(50)	1600	BOLAW-1	132	1865 N_CHIL-1	132	1	-47	45	100	140	5.79
(51)	1600	BOLAW-1	132	1865 N_CHIL-1	132	2	-47	45	100	140	5.79
(52)	1360	BOOS-1	132	2360 BOOS-2	220	1	-72	150	150	150	5.79
(53)	1360	BOOS-1	132	2360 BOOS-2	220	2	-72	150	150	150	5.79
(54)	1650	GALLE-1	132	3650 GALLE-3	33.0	2	26	32	32	32	5.79
(55)	2270	PADUK-2	220	2560 PANNI-2	220	1	148	550	750	850	5.79
(56)	2270	PADUK-2	220	2560 PANNI-2	220	2	148	550	750	850	5.79
(57)	2240	RANDE-2	220	2250 RANTE-2	220	1	32	550	750	850	5.79
(58)	1250	RANTE-1	132	2250 RANTE-2	220	1	-32	105	105	105	5.79
(59)	2135	N-POLP-2	220	2270 PADUK-2	220	1	74	550	750	850	5.78
(60)	2135	N-POLP-2	220	2270 PADUK-2	220	2	74	550	750	850	5.78
(61)	1200	UKUWE-1	132	1350 MATAL-1	132	1	-45	45	100	140	5.78
(62)	1200	UKUWE-1	132	1350 MATAL-1	132	2	-45	45	100	140	5.78
(63)	2580	KOTUG-2	220	2830 VEYAN-2	220	1	-141	550	750	850	5.78
(64)	2580	KOTUG-2	220	2830 VEYAN-2	220	2	-141	550	750	850	5.78
(65)	2360	BOOS-2	220	2800 MATUG-2	220	1	62	550	750	850	5.78

TABLE A6.2.5-1 Overload Ranking of 2015 System

2015 RAINY SEASON NIGHT PEAK  
OPEN AT AMPARA AND ANNURADHAPURA

*** BRANCH RANKING BY OVERLOAD BASED ON 1.00 OF RATING-B ***													
Q	RANK	FROM	BUS	KV	TO	BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
Q (	1)	2690	N_HABA-2	220	2715	TRINC-P2	220	1	-407	1100	1500	1700	73.1
Q (	2)	2690	N_HABA-2	220	2715	TRINC-P2	220	2	-407	1100	1500	1700	73.1
Q (	3)	1460	POLON-1	132	1690	HABAR-1	132	1	-67	45	100	140	72.1
Q (	4)	2570	BIYAG-2	220	5570	BIYA-DU1	132	1	205	250	250	250	71.5
Q (	5)	2570	BIYAG-2	220	5572	BIYA-DU2	132	1	205	250	250	250	71.5
Q (	6)	3570	BIYAG-3	33.0	5570	BIYA-DU1	132	1	-50	60	60	60	71.5
Q (	7)	3570	BIYAG-3	33.0	5572	BIYA-DU2	132	1	-50	60	60	60	71.5
Q (	8)	2230	VICTO-2	220	2240	RANDE-2	220	1	-66	550	750	850	71.3
Q (	9)	2550	KOLON-2	220	5551	KOLON-D1	132	1	148	250	250	250	71.2
Q (	10)	2550	KOLON-2	220	5552	KOLON-D2	132	2	148	250	250	250	71.2
Q (	11)	1360	BOOS-1	132	2360	BOOS-2	220	1	-163	150	150	150	71.2
Q (	12)	1360	BOOS-1	132	2360	BOOS-2	220	2	-163	150	150	150	71.2
Q (	13)	1135	N-POLP-1	132	2135	N-POLP-2	220	1	-140	500	500	500	71.0
Q (	14)	3570	BIYAG-3	33.0	5571	BIYA-DU2	132	1	-50	60	60	60	70.9
Q (	15)	2260	MAWEL-2	220	4260	MAWEL-G	11.0	1	-270	350	350	350	70.9
Q (	16)	2260	MAWEL-2	220	4260	MAWEL-G	11.0	2	-270	350	350	350	70.9
Q (	17)	1560	PANNI-1	132	1790	RATMA-1	132	1	73	45	100	140	70.8
Q (	18)	1560	PANNI-1	132	1790	RATMA-1	132	2	73	45	100	140	70.8
Q (	19)	2570	BIYAG-2	220	5571	BIYA-DU2	132	1	205	250	250	250	70.8
Q (	20)	2690	N_HABA-2	220	2900	WARIYA-2	220	1	230	1100	1500	1700	70.7
Q (	21)	2690	N_HABA-2	220	2900	WARIYA-2	220	2	230	1100	1500	1700	70.7
Q (	22)	3250	RANTE-3	33.0	5251	RANT-DU1	132	1	-7	10	10	10	70.7
Q (	23)	3250	RANTE-3	33.0	5252	RANT-DU2	132	1	-7	10	10	10	70.7
Q (	24)	2560	PANNI-2	220	5565	PANNI-D1	132	1	185	250	250	250	70.6
Q (	25)	2560	PANNI-2	220	5566	PANNI-D2	132	1	185	250	250	250	70.6
Q (	26)	2560	PANNI-2	220	5567	PANNI-D3	132	1	185	250	250	250	70.6
Q (	27)	1480	MEDEGA-1	132	1620	BADUL-1	132	1	-28	45	100	130	70.6
Q (	28)	1310	SAPU-1P	132	1590	SAPUG-1	132	1	185	165	225	255	70.6
Q (	29)	1310	SAPU-1P	132	1590	SAPUG-1	132	2	185	165	225	255	70.6
Q (	30)	1800	MATUG-1	132	5802	MATU-DU2	220	2	-86	150	150	150	70.6
Q (	31)	1800	MATUG-1	132	5801	MATU-DU1	220	1	-86	150	150	150	70.6
Q (	32)	2830	VEYAN-2	220	2900	WARIYA-2	220	1	-228	1100	1500	1700	70.5
Q (	33)	2830	VEYAN-2	220	2900	WARIYA-2	220	2	-228	1100	1500	1700	70.5
Q (	34)	1800	MATUG-1	132	5422	HORAN-D2	132	1	61	150	200	230	70.5
Q (	35)	1830	VEYAN-1	132	2830	VEYAN-2	220	1	-95	150	150	150	70.5
Q (	36)	1830	VEYAN-1	132	2830	VEYAN-2	220	2	-95	150	150	150	70.5
Q (	37)	1830	VEYAN-1	132	2830	VEYAN-2	220	3	-95	150	150	150	70.5
Q (	38)	1420	HORAN-1	132	5422	HORAN-D2	132	1	-61	144	185	200	70.5
Q (	39)	1650	GALLE-1	132	1655	N-GALL-1	132	1	-49	40	80	110	70.4
Q (	40)	1650	GALLE-1	132	1655	N-GALL-1	132	2	-49	40	80	110	70.4
Q (	41)	1800	MATUG-1	132	5564	PANAD-D4	132	1	75	150	200	230	70.4
Q (	42)	1850	PANAD-1	132	5564	PANAD-D4	132	1	-74	106	140	158	70.4
Q (	43)	1530	THULH-1	132	1830	VEYAN-1	132	1	-71	165	225	255	70.3
Q (	44)	1530	THULH-1	132	1830	VEYAN-1	132	2	-71	165	225	255	70.3
Q (	45)	1580	KOTUG-1	132	5581	KOTU-DU1	220	1	-96	250	250	250	70.3
Q (	46)	1580	KOTUG-1	132	5582	KOTU-DU2	220	1	-96	250	250	250	70.3
Q (	47)	1580	KOTUG-1	132	5583	KOTU-DU3	220	1	-96	250	250	250	70.3
Q (	48)	1160	INGIN-1	132	1480	MEDEGA-1	132	1	-22	45	100	130	70.3
Q (	49)	1310	SAPU-1P	132	1570	BIYAG-1	132	1	-156	165	225	255	70.3
Q (	50)	1310	SAPU-1P	132	1570	BIYAG-1	132	2	-156	165	225	255	70.3
Q (	51)	1135	N-POLP-1	132	1510	SITHA-1	132	1	72	45	100	140	70.3
Q (	52)	2360	BOOS-2	220	2800	MATUG-2	220	1	214	550	750	850	70.2
Q (	53)	2360	BOOS-2	220	2800	MATUG-2	220	2	214	550	750	850	70.2
Q (	54)	1130	POLPI-1	132	1380	JUNC-1	132	1	91	45	100	140	70.2
Q (	55)	1130	POLPI-1	132	1380	JUNC-1	132	2	91	45	100	140	70.2
Q (	56)	1715	TRINC-P1	132	2715	TRINC-P2	220	1	-127	150	150	150	70.2
Q (	57)	1715	TRINC-P1	132	2715	TRINC-P2	220	2	-127	150	150	150	70.2
Q (	58)	1570	BIYAG-1	132	5571	BIYA-DU2	132	1	-155	250	250	250	70.2
Q (	59)	1860	CHILL-1	132	1865	N_CHIL-1	132	1	-50	45	100	140	70.2
Q (	60)	1860	CHILL-1	132	1865	N_CHIL-1	132	2	-50	45	100	140	70.2
Q (	61)	1150	ANPA-1	132	1160	INGIN-1	132	1	-19	45	100	140	70.2
Q (	62)	1560	PANNI-1	132	5261	KESBE-D1	132	1	60	150	200	230	70.2
Q (	63)	1560	PANNI-1	132	5262	KESBE-D2	132	1	60	150	200	230	70.2
Q (	64)	1260	KESBE-1	132	5261	KESBE-D1	132	1	-60	115	145	158	70.2
Q (	65)	1260	KESBE-1	132	5262	KESBE-D2	132	1	-60	115	145	158	70.2

**TABLE A6.2.5-2 Voltage Collapse Ranking of 2015 System**

□ TPLAN \* INTERACTIVE TRANSMISSION PLANNING PROGRAM \*  
 □ 2015 RAINY SEASON NIGHT PEAK  
 □ OPEN AT AMPARA AND ANNURADHAPURA

□ \*\*\* BRANCH VOLTAGE COLLAPSE RANKING BASED ON 1.00 OF RATING-B \*\*\*

□	RANK	FROM BUS	KV	TO BUS	KV	ID	FLOW	RATA	RATB	RATC	PI
□	( 1)	2690 N_HABA-2	220	2715 TRINC-P2	220	1	-407	1100	1500	1700	12.6
□	( 2)	2690 N_HABA-2	220	2715 TRINC-P2	220	2	-407	1100	1500	1700	12.6
□	( 3)	2260 MAWEL-2	220	4260 MAWEL-G	11.0	1	-270	350	350	350	11.8
□	( 4)	2260 MAWEL-2	220	4260 MAWEL-G	11.0	2	-270	350	350	350	11.8
□	( 5)	1460 POLON-1	132	1690 HABAR-1	132	1	-67	45	100	140	11.6
□	( 6)	2690 N_HABA-2	220	2900 WARIYA-2	220	1	230	1100	1500	1700	11.6
□	( 7)	2690 N_HABA-2	220	2900 WARIYA-2	220	2	230	1100	1500	1700	11.6
□	( 8)	2815 PUTTA-P2	220	2865 N_CHIL-2	220	1	213	825	1125	1275	11.5
□	( 9)	2815 PUTTA-P2	220	2865 N_CHIL-2	220	2	213	825	1125	1275	11.5
□	(10)	2830 VEYAN-2	220	2900 WARIYA-2	220	1	-228	1100	1500	1700	11.5
□	(11)	2830 VEYAN-2	220	2900 WARIYA-2	220	2	-228	1100	1500	1700	11.5
□	(12)	2360 BOOS-2	220	2800 MATUG-2	220	1	214	550	750	850	11.5
□	(13)	2360 BOOS-2	220	2800 MATUG-2	220	2	214	550	750	850	11.5
□	(14)	1690 HABAR-1	132	1700 ANURA-1	132	1	-93	45	100	140	11.5
□	(15)	2220 KOTMA-2	220	2570 BIYAG-2	220	1	180	550	750	850	11.5
□	(16)	2220 KOTMA-2	220	2570 BIYAG-2	220	2	180	550	750	850	11.5
□	(17)	2350 MATAL-2	220	2690 N_HABA-2	220	1	-152	275	375	425	11.4
□	(18)	2350 MATAL-2	220	2690 N_HABA-2	220	2	-152	275	375	425	11.4
□	(19)	2260 MAWEL-2	220	2280 SWS-2	220	1	159	550	750	850	11.4
□	(20)	2260 MAWEL-2	220	2280 SWS-2	220	2	159	550	750	850	11.4
□	(21)	1360 BOOS-1	132	2360 BOOS-2	220	1	-163	150	150	150	11.4
□	(22)	1360 BOOS-1	132	2360 BOOS-2	220	2	-163	150	150	150	11.4
□	(23)	2270 PADUK-2	220	2280 SWS-2	220	1	-158	550	750	850	11.4
□	(24)	2270 PADUK-2	220	2280 SWS-2	220	2	-158	550	750	850	11.4
□	(25)	1580 KOTUG-1	132	5582 KOTU-DU2	220	1	-96	250	250	250	11.4
□	(26)	1580 KOTUG-1	132	5583 KOTU-DU3	220	1	-96	250	250	250	11.4
□	(27)	1580 KOTUG-1	132	5581 KOTU-DU1	220	1	-96	250	250	250	11.4
□	(28)	2570 BIYAG-2	220	5572 BIYA-DU2	132	1	205	250	250	250	11.4
□	(29)	2570 BIYAG-2	220	5570 BIYA-DU1	132	1	205	250	250	250	11.4
□	(30)	3580 KOTUG-3	33.0	5582 KOTU-DU2	220	1	-30	60	60	60	11.4
□	(31)	3580 KOTUG-3	33.0	5583 KOTU-DU3	220	1	-30	60	60	60	11.4
□	(32)	3580 KOTUG-3	33.0	5581 KOTU-DU1	220	1	-30	60	60	60	11.4
□	(33)	1700 ANURA-1	132	1710 TRINC-1	132	1	-67	45	100	140	11.4
□	(34)	1700 ANURA-1	132	1710 TRINC-1	132	2	-67	45	100	140	11.4
□	(35)	2230 VICTO-2	220	2240 RANDE-2	220	1	-66	550	750	850	11.4
□	(36)	3570 BIYAG-3	33.0	5572 BIYA-DU2	132	1	-50	60	60	60	11.4
□	(37)	3570 BIYAG-3	33.0	5570 BIYA-DU1	132	1	-50	60	60	60	11.4
□	(38)	1715 TRINC-P1	132	2715 TRINC-P2	220	1	-127	150	150	150	11.4
□	(39)	1715 TRINC-P1	132	2715 TRINC-P2	220	2	-127	150	150	150	11.4
□	(40)	1135 N-POLP-1	132	2135 N-POLP-2	220	1	-140	500	500	500	11.4
□	(41)	1310 SAPU-1P	132	1590 SAPUG-1	132	1	185	165	225	255	11.4
□	(42)	1310 SAPU-1P	132	1590 SAPUG-1	132	2	185	165	225	255	11.4
□	(43)	2270 PADUK-2	220	2560 PANNI-2	220	1	234	550	750	850	11.3
□	(44)	2270 PADUK-2	220	2560 PANNI-2	220	2	234	550	750	850	11.3
□	(45)	1310 SAPU-1P	132	1570 BIYAG-1	132	1	-156	165	225	255	11.3
□	(46)	1310 SAPU-1P	132	1570 BIYAG-1	132	2	-156	165	225	255	11.3
□	(47)	1130 POLPI-1	132	1380 JUNC-1	132	1	91	45	100	140	11.3
□	(48)	1130 POLPI-1	132	1380 JUNC-1	132	2	91	45	100	140	11.3
□	(49)	1865 N_CHIL-1	132	2865 N_CHIL-2	220	1	-98	150	150	150	11.3
□	(50)	1865 N_CHIL-1	132	2865 N_CHIL-2	220	2	-98	150	150	150	11.3
□	(51)	1865 N_CHIL-1	132	2865 N_CHIL-2	220	3	-98	150	150	150	11.3
□	(52)	2560 PANNI-2	220	5567 PANNI-D3	132	1	185	250	250	250	11.3
□	(53)	2560 PANNI-2	220	5566 PANNI-D2	132	1	185	250	250	250	11.3
□	(54)	2560 PANNI-2	220	5565 PANNI-D1	132	1	185	250	250	250	11.3
□	(55)	1135 N-POLP-1	132	1510 SITHA-1	132	1	72	45	100	140	11.3
□	(56)	1800 MATUG-1	132	5564 PANAD-D4	132	1	75	150	200	230	11.3
□	(57)	1850 PANAD-1	132	5564 PANAD-D4	132	1	-74	106	140	158	11.3
□	(58)	1460 POLON-1	132	1780 VALAI-1	132	1	30	45	100	140	11.3
□	(59)	2260 MAWEL-2	220	2360 BOOS-2	220	1	109	550	750	850	11.3
□	(60)	2260 MAWEL-2	220	2360 BOOS-2	220	2	109	550	750	850	11.3
□	(61)	1800 MATUG-1	132	5422 HORAN-D2	132	1	61	150	200	230	11.3
□	(62)	1420 HORAN-1	132	5422 HORAN-D2	132	1	-61	144	185	200	11.3
□	(63)	1480 MEDEGA-1	132	1620 RADUL-1	132	1	-28	45	100	130	11.3
□	(64)	2135 N-POLP-2	220	2230 VICTO-2	220	1	-121	550	750	850	11.3
□	(65)	2135 N-POLP-2	220	2230 VICTO-2	220	2	-121	550	750	850	11.3





Table A6.3 - 2 Power Supply Matrix of CEB's Areas - Grid Substations after Feeders' Rearrangement and Substation Addition in The Year 2001

Province	Northwest		North		Central		South		Western		Eastern		Northern		Irrawaddy		Subsidiary	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
11) Anuradhapura	40																	
12) Polonnaruwa	40																	
13) Puttalam	40																	
14) Colombo	15																	
15) Kaluwa																		
16) Kurunegala																		
17) Galle																		
18) Matara																		
19) Hambantota																		
20) Mirissa																		
21) Mahara																		
22) Kandy																		
23) Nuwara																		
24) Baddegama																		
25) Kandy																		
26) Nuwara																		
27) Nuwara																		
28) Nuwara																		
29) Nuwara																		
30) Nuwara																		
31) Nuwara																		
32) Nuwara																		
33) Nuwara																		
34) Nuwara																		
35) Nuwara																		
36) Nuwara																		
37) Nuwara																		
38) Nuwara																		
39) Nuwara																		
40) Nuwara																		

Table A6.3 - 3 Power Supply Matrix of CEB's Areas - Grid Substations after Feeders' Rearrangement and Substation Addition in The Year 2002

Power Line No.	Power Area	North		Central		South		Western		Eastern		Western		Northern		Southern		Other		
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
101	Abulaya	1																		
102	Abulaya	1																		
103	Abulaya	1																		
104	Abulaya	1																		
105	Abulaya	1																		
106	Abulaya	1																		
107	Abulaya	1																		
108	Abulaya	1																		
109	Abulaya	1																		
110	Abulaya	1																		
111	Abulaya	1																		
112	Abulaya	1																		
113	Abulaya	1																		
114	Abulaya	1																		
115	Abulaya	1																		
116	Abulaya	1																		
117	Abulaya	1																		
118	Abulaya	1																		
119	Abulaya	1																		
120	Abulaya	1																		
121	Abulaya	1																		
122	Abulaya	1																		
123	Abulaya	1																		
124	Abulaya	1																		
125	Abulaya	1																		
126	Abulaya	1																		
127	Abulaya	1																		
128	Abulaya	1																		
129	Abulaya	1																		
130	Abulaya	1																		
131	Abulaya	1																		
132	Abulaya	1																		
133	Abulaya	1																		
134	Abulaya	1																		
135	Abulaya	1																		
136	Abulaya	1																		
137	Abulaya	1																		
138	Abulaya	1																		
139	Abulaya	1																		
140	Abulaya	1																		
141	Abulaya	1																		
142	Abulaya	1																		
143	Abulaya	1																		
144	Abulaya	1																		
145	Abulaya	1																		
146	Abulaya	1																		
147	Abulaya	1																		
148	Abulaya	1																		
149	Abulaya	1																		
150	Abulaya	1																		
151	Abulaya	1																		
152	Abulaya	1																		
153	Abulaya	1																		
154	Abulaya	1																		
155	Abulaya	1																		
156	Abulaya	1																		
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181	Abulaya	1																		
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194	Abulaya	1																		
195	Abulaya	1																		
196	Abulaya	1																		
197	Abulaya	1																		
198	Abulaya	1																		
199	Abulaya	1																		



Table A6.3 - 5 Power Supply Matrix of CEB's Areas - Grid Substations after Feeders' Rearrangement and Substation Addition in The Year 2004

Province	Cebu Area	North Cebu		Central Cebu		South Cebu		Western Cebu		Metro Cebu		Eastern Cebu		Davao		Subsidiaries		Total		
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04
05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05
06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06
07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08
09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55





Table A6.3-8 Power Supply Matrix of CEB's Areas - Grid Substations after Feeders' Rearrangement and Substation Addition in The Year 2007

Province / City Area	North Area		Central Area		South Area		Western Area		Eastern Area		Northern Area		Southern Area		Other Areas	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134
135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151
152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185
186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202
203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219
220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236
237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253
254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304
305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321
322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338
339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355
356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372
373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389
390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406
407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423
424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457
458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474
475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491
492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508
509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525
526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542
543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559
560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576
577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593
594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610
611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627
628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644
645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661
662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678
679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695
696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712
713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729
730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746
747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763
764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797
798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814
815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831
832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848
849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865
866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882
883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899
900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916
917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933
934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950
951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967
968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984
985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001







Table A6.3 - 11 Power Supply Matrix of CEB's Areas - Grid Substations after Feeder's Rearrangement and Substation Addition in The Year 2010

Feeder Area	North		Central		South		West		East		North		South		West		East		North		South		West		East		North		South		West		East																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)	(97)	(98)	(99)	(100)	(101)	(102)	(103)	(104)	(105)	(106)	(107)	(108)	(109)	(110)	(111)	(112)	(113)	(114)	(115)	(116)	(117)	(118)	(119)	(120)	(121)	(122)	(123)	(124)	(125)	(126)	(127)	(128)	(129)	(130)	(131)	(132)	(133)	(134)	(135)	(136)	(137)	(138)	(139)	(140)	(141)	(142)	(143)	(144)	(145)	(146)	(147)	(148)	(149)	(150)	(151)	(152)	(153)	(154)	(155)	(156)	(157)	(158)	(159)	(160)	(161)	(162)	(163)	(164)	(165)	(166)	(167)	(168)	(169)	(170)	(171)	(172)	(173)	(174)	(175)	(176)	(177)	(178)	(179)	(180)	(181)	(182)	(183)	(184)	(185)	(186)	(187)	(188)	(189)	(190)	(191)	(192)	(193)	(194)	(195)	(196)	(197)	(198)	(199)	(200)	(201)	(202)	(203)	(204)	(205)	(206)	(207)	(208)	(209)	(210)	(211)	(212)	(213)	(214)	(215)	(216)	(217)	(218)	(219)	(220)	(221)	(222)	(223)	(224)	(225)	(226)	(227)	(228)	(229)	(230)	(231)	(232)	(233)	(234)	(235)	(236)	(237)	(238)	(239)	(240)	(241)	(242)	(243)	(244)	(245)	(246)	(247)	(248)	(249)	(250)	(251)	(252)	(253)	(254)	(255)	(256)	(257)	(258)	(259)	(260)	(261)	(262)	(263)	(264)	(265)	(266)	(267)	(268)	(269)	(270)	(271)	(272)	(273)	(274)	(275)	(276)	(277)	(278)	(279)	(280)	(281)	(282)	(283)	(284)	(285)	(286)	(287)	(288)	(289)	(290)	(291)	(292)	(293)	(294)	(295)	(296)	(297)	(298)	(299)	(300)	(301)	(302)	(303)	(304)	(305)	(306)	(307)	(308)	(309)	(310)	(311)	(312)	(313)	(314)	(315)	(316)	(317)	(318)	(319)	(320)	(321)	(322)	(323)	(324)	(325)	(326)	(327)	(328)	(329)	(330)	(331)	(332)	(333)	(334)	(335)	(336)	(337)	(338)	(339)	(340)	(341)	(342)	(343)	(344)	(345)	(346)	(347)	(348)	(349)	(350)	(351)	(352)	(353)	(354)	(355)	(356)	(357)	(358)	(359)	(360)	(361)	(362)	(363)	(364)	(365)	(366)	(367)	(368)	(369)	(370)	(371)	(372)	(373)	(374)	(375)	(376)	(377)	(378)	(379)	(380)	(381)	(382)	(383)	(384)	(385)	(386)	(387)	(388)	(389)	(390)	(391)	(392)	(393)	(394)	(395)	(396)	(397)	(398)	(399)	(400)	(401)	(402)	(403)	(404)	(405)	(406)	(407)	(408)	(409)	(410)	(411)	(412)	(413)	(414)	(415)	(416)	(417)	(418)	(419)	(420)	(421)	(422)	(423)	(424)	(425)	(426)	(427)	(428)	(429)	(430)	(431)	(432)	(433)	(434)	(435)	(436)	(437)	(438)	(439)	(440)	(441)	(442)	(443)	(444)	(445)	(446)	(447)	(448)	(449)	(450)	(451)	(452)	(453)	(454)	(455)	(456)	(457)	(458)	(459)	(460)	(461)	(462)	(463)	(464)	(465)	(466)	(467)	(468)	(469)	(470)	(471)	(472)	(473)	(474)	(475)	(476)	(477)	(478)	(479)	(480)	(481)	(482)	(483)	(484)	(485)	(486)	(487)	(488)	(489)	(490)	(491)	(492)	(493)	(494)	(495)	(496)	(497)	(498)	(499)	(500)	(501)	(502)	(503)	(504)	(505)	(506)	(507)	(508)	(509)	(510)	(511)	(512)	(513)	(514)	(515)	(516)	(517)	(518)	(519)	(520)	(521)	(522)	(523)	(524)	(525)	(526)	(527)	(528)	(529)	(530)	(531)	(532)	(533)	(534)	(535)	(536)	(537)	(538)	(539)	(540)	(541)	(542)	(543)	(544)	(545)	(546)	(547)	(548)	(549)	(550)	(551)	(552)	(553)	(554)	(555)	(556)	(557)	(558)	(559)	(560)	(561)	(562)	(563)	(564)	(565)	(566)	(567)	(568)	(569)	(570)	(571)	(572)	(573)	(574)	(575)	(576)	(577)	(578)	(579)	(580)	(581)	(582)	(583)	(584)	(585)	(586)	(587)	(588)	(589)	(590)	(591)	(592)	(593)	(594)	(595)	(596)	(597)	(598)	(599)	(600)	(601)	(602)	(603)	(604)	(605)	(606)	(607)	(608)	(609)	(610)	(611)	(612)	(613)	(614)	(615)	(616)	(617)	(618)	(619)	(620)	(621)	(622)	(623)	(624)	(625)	(626)	(627)	(628)	(629)	(630)	(631)	(632)	(633)	(634)	(635)	(636)	(637)	(638)	(639)	(640)	(641)	(642)	(643)	(644)	(645)	(646)	(647)	(648)	(649)	(650)	(651)	(652)	(653)	(654)	(655)	(656)	(657)	(658)	(659)	(660)	(661)	(662)	(663)	(664)	(665)	(666)	(667)	(668)	(669)	(670)	(671)	(672)	(673)	(674)	(675)	(676)	(677)	(678)	(679)	(680)	(681)	(682)	(683)	(684)	(685)	(686)	(687)	(688)	(689)	(690)	(691)	(692)	(693)	(694)	(695)	(696)	(697)	(698)	(699)	(700)	(701)	(702)	(703)	(704)	(705)	(706)	(707)	(708)	(709)	(710)	(711)	(712)	(713)	(714)	(715)	(716)	(717)	(718)	(719)	(720)	(721)	(722)	(723)	(724)	(725)	(726)	(727)	(728)	(729)	(730)	(731)	(732)	(733)	(734)	(735)	(736)	(737)	(738)	(739)	(740)	(741)	(742)	(743)	(744)	(745)	(746)	(747)	(748)	(749)	(750)	(751)	(752)	(753)	(754)	(755)	(756)	(757)	(758)	(759)	(760)	(761)	(762)	(763)	(764)	(765)	(766)	(767)	(768)	(769)	(770)	(771)	(772)	(773)	(774)	(775)	(776)	(777)	(778)	(779)	(780)	(781)	(782)	(783)	(784)	(785)	(786)	(787)	(788)	(789)	(790)	(791)	(792)	(793)	(794)	(795)	(796)	(797)	(798)	(799)	(800)	(801)	(802)	(803)	(804)	(805)	(806)	(807)	(808)	(809)	(810)	(811)	(812)	(813)	(814)	(815)	(816)	(817)	(818)	(819)	(820)	(821)	(822)	(823)	(824)	(825)	(826)	(827)	(828)	(829)	(830)	(831)	(832)	(833)	(834)	(835)	(836)	(837)	(838)	(839)	(840)	(841)	(842)	(843)	(844)	(845)	(846)	(847)	(848)	(849)	(850)	(851)	(852)	(853)	(854)	(855)	(856)	(857)	(858)	(859)	(860)	(861)	(862)	(863)	(864)	(865)	(866)	(867)	(868)	(869)	(870)	(871)	(872)	(873)	(874)	(875)	(876)	(877)	(878)	(879)	(880)	(881)	(882)	(883)	(884)	(885)	(886)	(887)	(888)	(889)	(890)	(891)	(892)	(893)	(894)	(895)	(896)	(897)	(898)	(899)	(900)	(901)	(902)	(903)	(904)	(905)	(906)	(907)	(908)	(909)	(910)	(911)	(912)	(913)	(914)	(915)	(916)	(917)	(918)	(919)	(920)	(921)	(922)	(923)	(924)	(925)	(926)	(927)	(928)	(929)	(930)	(931)	(932)	(933)	(934)	(935)	(936)	(937)	(938)	(939)	(940)	(941)	(942)	(943)	(944)	(945)	(946)	(947)	(948)	(949)	(950)	(951)	(952)	(953)	(954)	(955)	(956)	(957)	(958)	(959)	(960)	(961)	(962)	(963)	(964)	(965)	(966)	(967)	(968)	(969)	(970)	(971)	(972)	(973)	(974)	(975)	(976)	(977)	(978)	(979)	(980)	(981)	(982)	(983)	(984)	(985)	(986)	(987)	(988)	(989)	(990)	(991)	(992)	(993)	(994)	(995)	(996)	(997)	(998)	(999)
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

Table A6.3 - 12 Power Supply Matrix of CEB's Areas - Grid Substations after Feeder's Rearrangement and Substation Addition in The Year 2015

District	Substation	North Zone		Central Zone		South Zone		West Zone		East Zone		Southwest Zone		Northwest Zone		Southwest Zone	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
North	(1) Alibonbon	75															
	(2) Hagonoy	10															
Central	(3) Pagsanjan																
	(4) Marikina																
South	(5) Marikina																
	(6) Marikina																
West	(7) Marikina																
	(8) Marikina																
East	(9) Marikina																
	(10) Marikina																
Southwest	(11) Marikina																
	(12) Marikina																
Northwest	(13) Marikina																
	(14) Marikina																