

BAB V

KESIMPULAN DAN SARAN

5.1. KESIMPULAN

Berdasarkan data yang diperoleh, hasil perhitungan trafik serta referensi yang mendukung dasar sistem kepadatan trafik telepon sentral MD-110 ERICSSON di PERTAMINA UPMS III Kramat Raya 59 ke sentral P.T. TELKOM, maka dapat ditarik kesimpulan sebagai berikut:

1. Kapasitas kanal/saluran pada sentral telepon PERTAMINA UPMS III Kramat Raya 59 perlu dilakukan penambahan kanal/saluran sebanyak 10 kanal/saluran berdasarkan trafik tertinggi dari tanggal 23 Juni 2003 sampai dengan 01 Agustus 2003, mengingat banyaknya kegagalan panggilan pada jam sibuk sangat tinggi serta kanal/saluran yang terpasang tidak dapat menampung semua panggilan yang keluar ke sentral P.T. TELKOM.
2. Dari kondisi hasil optimalisasi jaringan yang dianalisis, selanjutnya dapat ditentukan penambahan kapasitas saluran yang ada, sedangkan untuk mengoptimalkan saluran, tidak digunakan alternatif route tetapi dilakukan melalui monitor dan pengamatan trafik antar sentral secara periodik.

5.2. SARAN

Setelah tahap prosedur implementasi dilaksanakan, tahap selanjutnya dilakukan evaluasi optimalisasi jaringan. Minimum waktu yang diperlukan 1 bulan, 3 bulan kemudian 6 bulan dan seterusnya untuk melakukan pendataan trafik dari sentral. Proses selanjutnya akan kembali dari awal. Kajian hasil ini dikaji terus menerus yang merupakan siklus proses yang teratur untuk

optimalisasi pada siklus berikutnya, sehingga kondisi optimalisasi jaringan akan selalu termonitor dan terkontrol secara terpadu. Hasil yang didapat untuk mengantisipasi segala bentuk congestion yang berlebihan agar dapat dihindarkan sesuai yang dikehendaki atau di setting.



DAFTAR PUSTAKA

1. Bush, Stanley, "PABX System And Application", McGraw-Hill, New York, 1994.
2. Djajasugita, Ahmadi, F, "Rekayasa Trafik", Bandung, 1997.
3. Roger L. Freeman, "Telecommunication System Engineering", 3 edition Jhon Willey & Sons, New York, 1994.
4. Simanjuntak, Tiur, Ir., "Dasar-dasar Telekomunikasi", edisi pertama, cetakan pertama, penerbit alumni, Bandung, 1993.
5. Saydam, Gouzali, "Prinsip Dasar Teknologi Jaringan Telekomunikasi", edisi pertama, penerbit Angkasa, Bandung, 1997.
6. Suparman, "PABX MD-110 Akamigas Telekomunikasi Digital", Cebu, 1992.
7. "ERICSSON MD-110 Information System ASB 501 Operation And Maintenance".

DAFTAR RIWAYAT HIDUP

Nama lengkap : Saut Sundoro Siringoringo
Nama panggilan : Saut
Jenis kelamin : Laki-laki
Tempat/tanggal lahir : Lubuk linggau/29 Mei 1980
Agama : Kristen Protestan
Alamat : Jl. Pratama No.35A Rt.02/08 Curug Raya Pondok Kelapa
Jakarta Timur 13450
Status perkawinan : Belum menikah

RIWAYAT PENDIDIKAN FORMAL

Jenjang	Nama sekolah	Masa Studi
1. SD	SD Xaverius Lubuk linggau	1986-1992
2. SMP	SMP Xaverius Lubuk linggau	1992-1995
3. SMA	SMA Negeri 1 Lubuk linggau	1995-1998
4. Sarjana SI	Teknik elek tro telekomunikasi Universitas Darma Persada	1999-2003

PENGALAMAN

1. Riset lapangan dan pengambilan data Tugas Akhir di PERTAMINA UPMS III Kramat Raya 59
2. Kerja Praktek di PERTAMINA UPMS III Kramat Raya 59
3. Asisten Dosen Praktikum Fisika di Laboratorium Fisika Fakultas Teknik Universitas Darma Persada
4. Asisten Dosen Praktikum Komputer Pemograman bahasa C di Laboratorium Komputer Fakultas Teknik Universitas Darma Persada

LAMPIRAN 1

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10:00-11:00	7.95	341	18	14	4	63	95

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DATE	MENO	ROUTE					
23JUN03	2	ROU = 4					
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13:00-14:00	1.58	40	6	9	5	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN2

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DATE	MENO	ROUTE						
24JUN03	1	ROU = 1						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	6.86	327	9	14	4	52	62	

END

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DATE	MENO	ROUTE						
24JUN03	2	ROU = 4						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NOV	NBLO	OFLO	CONG	
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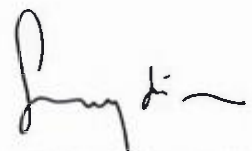
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24JUN03	1	ROU = 1						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NOV	NBLO	OFLO	CONG	
13:00-14:00	6.32	318	12	14	2	43	29	

END

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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE						
24JUN03	2	ROU = 4						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	1.55	63	6	9	5	0	0	

END



(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN3

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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
25JUN03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	624	343	9	14	0	27	28

END

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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
25JUN03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	0.85	28	9	9	5	0	0

END

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DATE	MENO	ROUTE					
25JUN03	1	ROU = 1					
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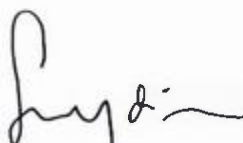
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DATE	MENO	ROUTE					
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TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	0.80	18	9	9	4	0	0

END


(SURYADI HIDAYAT)
NIR.441136

LAMPIRAN4

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DATE MENO ROUTE
26JUN03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	6.84	335	13	14	0	19	59

END

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DATE MENO ROUTE
26JUN03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.23	37	8	9	5	0	0

END

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DATE MENO ROUTE
26JUN03 1 ROU= 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
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END

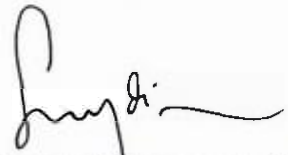
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13:00-14:00	1.19	31	8	9	4	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 5

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DATE MENO ROUTE
27JUN03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.94	329	11	14	4	42	35

END

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DATE MENO ROUTE
27JUN03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.55	63	6	9	5	0	0

END

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DATE MENO ROUTE
27JUN03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.67	326	16	14	4	39	42

END


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DATE MENO ROUTE
27JUN03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.25	40	9	9	5	0	0

END


(SURYADIHIDAYAT)
NIP.441136

LAMPIRAN 6

<TRREP:MENO=1;
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DATE	MENO	ROUTE						
30JUN03	1	ROU = 1						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	824	371	12	14	4	57	72	

END

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DATE	MENO	ROUTE						
30JUN03	2	ROU = 4						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	1.67	62	8	9	0	0	0	

END

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DATE	MENO	ROUTE						
30JUN03	1	ROU = 1						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	6.87	332	10	14	4	12	66	

END

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DATE	MENO	ROUTE						
30JUN03	2	ROU = 4						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	1.56	65	9	9	5	0	0	

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN7

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DATE MENO ROUTE
01JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.43	323	10	14	4	58	70

END

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DATE MENO ROUTE
01JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.59	40	9	9	4	0	0

END

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DATE MENO ROUTE
01JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.28	311	8	14	0	32	62

END

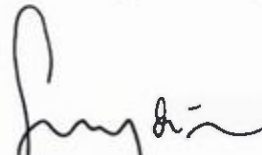
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DATE MENO ROUTE
01JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.52	43	6	9	4	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 8

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DATE	MENO	ROUTE					
02JUL03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	6.99	258	14	14	4	26	46

END

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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
02JUL03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.20	35	6	9	0	0	0

END

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DATE	MENO	ROUTE					
02JUL03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	5.63	297	10	14	5	22	35


END

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DATE	MENO	ROUTE					
02JUL03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.22	37	6	9	5	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN9

<TRREP:MENO=1;

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DATE	MENO	ROUTE						
03JUL03	1	ROU = 1						
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	724	343	9	14	2	38	46	

END

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DATE	MENO	ROUTE						
03JUL03	2	ROU = 4						
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	142	56	8	9	4	0	0	

END

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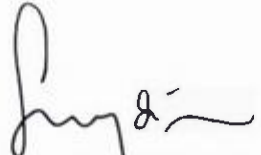
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DATE	MENO	ROUTE						
03JUL03	2	ROU = 4						
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	1.45	51	8	9	0	0	0	

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 10

<TRREP:MENO=1;

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DATE MENO ROUTE
04JUL03 1 ROU = 1

TIME	TRAFF	OUTG CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.97	338	12	14	5	32	44

END

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DATE MENO ROUTE
04JUL03 2 ROU = 4

TIME	TRAFF	OUTG CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.46	48	6	9	5	0	0

END

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04JUL03 1 ROU = 1

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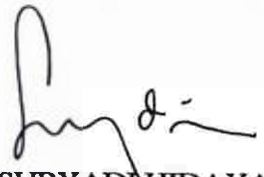
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DATE MENO ROUTE
04JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.54	43	9	9	5	0	0

END


(SURYADHI Hidayat)
NIP.441136

LAMPIRAN 11

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21JUL03	1	ROU = 1					
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END

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TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.62	42	6	9	0	0	0

END

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21JUL03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	7.12	312	18	14	4	25	41


END

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TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.50	39	5	9	4	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 12

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22JUL03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.21	335	12	14	4	35	47

END

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DATE	MENO	ROUTE					
22JUL03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NOV	NBLO	OFLO	CONG
10:00-11:00	1.54	53	10	9	4	0	0

END

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DATE	MENO	ROUTE					
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END

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TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.49	59	6	9	4	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 13

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DATE MENO ROUTE
23JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	6.56	346	15	14	2	26	29

END

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DATE MENO ROUTE
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10:00-11:00	1.22	26	10	9	0	0	0

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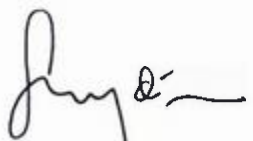
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13:00-14:00	1.12	20	8	9	0	0	0

END


(SURYAD HIDAYAT)
NIP. 441136

LAMPIRAN 14

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24JUL03	1	ROU = 1						
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10:00-11:00	6.95	330	10	14	2	19	53	

END

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DATE	MENO	ROUTE						
24JUL03	2	ROU = 4						
TIME	TRAFF	OUTG CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
10:00-11:00	1.32	32	8	9	4	0	0	

END

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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE						
24JUL03	1	ROU = 1						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	6.86	318	12	14	4	29	32	

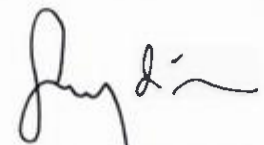
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TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE						
24JUL03	2	ROU = 4						
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG	
13:00-14:00	1.29	28	6	9	0	0	0	

END



(SURYADI HIDAYAT)
NIP. 441136

LAMPIRAN 15

<TRREP:MENO=1;
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DATE	MENO	ROUTE					
25JUL03	1	ROU = 1					
TIME	TRAFF	OUTG CALLS	INC. CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.72	340	18	14	4	22	38

END

<TRREP:MENO=2;
TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
25JUL03	2	ROU = 4					
TIME	TRAFF	OUTG CALLS	INC. CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.48	58	7	9	4	0	0

END

<TRREP:MENO=1;
TRAFFIC RECORDING RESULT DATA

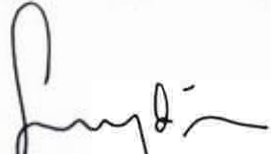
DATE	MENO	ROUTE					
25JUL03	1	ROU = 1					
TIME	TRAFF	OUTG. CALLS	INC. CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	7.20	295	16	14	5	40	49

END

<TRREP:MENO=2;
TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
25JUL03	2	ROU = 4					
TIME	TRAFF	OUTG. CALLS	INC. CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.42	37	5	9	4	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 16

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
28JUL03	1	ROU = 1					
TIME	TRAFF	OUTG CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7 92	367	14	14	4	47	68

END

<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
28JUL03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	2 32	60	11	9	5	0	0

END

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
28JUL03	1	ROU = 1					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	7 12	341	11	14	4	21	62

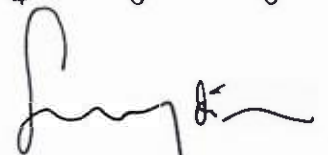
END

<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
28JUL03	2	ROU = 4					
TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1 93	50	10	9	4	0	0

END



(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 17

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
29JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.62	352	10	14	4	42	74

END

<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
29JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.52	57	7	9	0	0	0

END

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
29JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.54	321	12	14	2	28	58

END

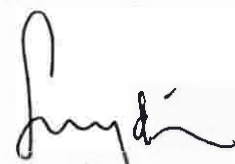
<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
29JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.46	42	8	9	5	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 18

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
30JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	6.82	247	10	14	2	31	52

END

<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
30JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.53	41	2	9	0	0	0

END

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
30JUL03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.22	301	8	14	4	25	40

END


<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
30JUL03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.14	21	7	9	5	0	0

END


(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN 19

<TRREP:MENO=1;
TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
31JUL03	1	ROU = 1					
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.32	355	8	14	2	32	38

END

<TRREP:MENO=2;
TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
31JUL03	2	ROU = 4					
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	1.47	53	11	9	4	0	0

END

<TRREP:MENO=1;
TRAFFIC RECORDING RESULT DATA

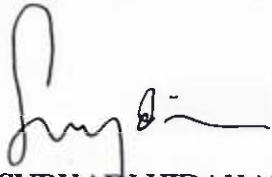
DATE	MENO	ROUTE					
31JUL03	1	ROU = 1					
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.76	343	12	14	4	43	52

END

<TRREP:MENO=2;
TRAFFIC RECORDING RESULT DATA

DATE	MENO	ROUTE					
31JUL03	2	ROU = 4					
TIME	TRAFF	OUTG CALLS	INC CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.43	54	11	9	0	0	0

END


(SURYADI HIDAYAT)
NIP 441136

LAMPIRAN 20

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
01AUG03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	7.46	327	10	14	4	35	39

END

<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
01AUG03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
10:00-11:00	2.25	25	8	9	5	0	0

END

<TRREP:MENO=1;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
01AUG03 1 ROU = 1

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	6.78	336	12	14	2	40	35

END

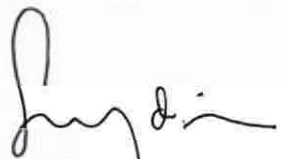
<TRREP:MENO=2;

TRAFFIC RECORDING RESULT DATA

DATE MENO ROUTE
01AUG03 2 ROU = 4

TIME	TRAFF	OUTG.CALLS	INC.CALL	NDV	NBLO	OFLO	CONG
13:00-14:00	1.68	30	10	9	5	0	0

END



(SURYADI HIDAYAT)
NIP.441136

LAMPIRAN21**TABEL ERLANG B UNTUK MENENTUKAN KANAL/SALURAN**

K=N

N	A in Erlang								
	B=0.1%	B=0.2%	B=0.5%	B=1.0%	B=2.0%	B=3.0%	B=5.0%	B=10%	B=20%
1.	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.11	0.25
2.	0.05	0.07	0.11	0.15	0.27	0.28	0.38	0.60	1.00
3.	0.19	0.25	0.35	0.46	0.60	0.72	0.90	1.27	1.93
4.	0.44	0.54	0.70	0.87	1.09	1.26	1.52	2.05	2.95
5.	0.76	0.90	1.13	1.36	1.65	1.88	2.22	2.88	4.01
6.	1.15	1.33	1.62	1.91	2.28	2.54	2.96	3.76	5.11
7.	1.58	1.80	2.16	2.50	2.94	3.25	3.74	4.67	6.23
8.	2.05	2.31	2.73	3.13	3.63	3.99	4.54	5.60	7.37
9.	2.56	2.86	3.33	3.78	4.34	4.75	5.37	6.55	8.52
10.	3.09	3.43	3.96	4.46	5.08	5.53	6.22	7.51	9.69
11.	3.65	4.02	4.61	5.16	5.84	6.33	7.08	8.49	10.9
12.	4.23	4.64	5.28	5.88	6.61	7.14	7.95	9.47	12.0
13.	4.83	5.27	5.96	6.61	7.40	7.97	8.83	10.5	13.2
14.	5.45	5.92	6.66	7.35	8.20	8.80	9.73	11.5	14.4
15.	6.08	6.58	7.38	8.11	9.01	9.65	10.6	12.5	15.6
16.	6.72	7.26	8.10	8.88	9.83	10.5	11.5	13.5	16.8
17.	7.08	7.95	8.83	9.65	10.7	11.4	12.5	14.5	18.0
18.	8.05	8.64	9.58	10.4	11.5	12.2	13.4	15.5	19.2
19.	8.72	9.58	10.3	11.2	12.3	13.1	14.3	16.6	20.4
20.	9.41	10.1	11.1	12.0	13.2	14.0	15.2	17.6	21.6
21.	10.1	10.8	11.9	12.8	14.0	14.9	16.2	18.7	22.8
22.	10.8	11.5	12.6	13.7	14.9	15.8	17.1	19.7	24.1
23.	11.5	12.3	13.4	14.5	15.8	16.7	18.1	20.7	25.3
24.	12.2	13.0	14.2	15.3	16.6	17.6	19.0	21.8	26.5
25.	13.0	13.8	15.0	16.1	17.5	18.5	20.0	22.8	27.7
26.	13.7	14.5	15.8	17.0	18.4	19.4	20.9	23.9	28.9
27.	14.4	15.3	16.6	17.8	19.3	20.3	21.9	24.9	30.2
28.	15.2	16.1	17.4	18.6	20.2	21.2	22.9	26.0	31.4
29.	15.9	16.8	18.2	19.5	21.0	22.1	23.8	27.1	32.6
30.	16.7	17.6	19.0	20.3	21.0	23.1	24.8	28.1	33.8
31.	17.4	18.4	19.9	21.2	22.0	24.0	25.8	29.2	35.1
32.	18.2	19.2	20.7	22.0	23.9	24.9	26.7	30.2	36.3
33.	19.0	20.0	21.5	22.9	24.8	25.8	27.7	31.3	37.5
34.	19.7	20.8	22.3	23.8	25.8	26.8	28.7	32.4	38.8
35.	20.5	21.6	23.2	24.6	26.4	27.7	29.7	33.4	40.0