

## BAB V

### KESIMPULAN

Pada akhir penulisan tugas akhir ini, dapat diambil beberapa kesimpulan yaitu :

1. Untuk kelangsungan komunikasi seluler, handover sangat diperlukan agar komunikasi yang sedang berlangsung tidak akan terputus jika suatu MS ( Mobile Station ) bergerak berpindah sel / wilayah.
2. Kegagalan atau kesuksesan handover ditentukan berdasarkan masalah yang dihadapi oleh suatu BTS, sehingga pemecahannya pun harus berdasarkan masalah tersebut.
3. Setelah 2 BTS dianalisa, ternyata pada BTS BT1 terdapat masalah pada level Downlinknya, yang disebabkan karena power BTS kurang kuat diterima MS. Walaupun telah diatasi dengan menambah power pada BTS tersebut, selama 4 minggu dan terus diusahakan pemecahannya BTS tersebut tetap bermasalah pada level dowlinknya, sehingga harus mengganti perangkat BTS tersebut.

## DAFTAR PUSTAKA

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4. John Gardiner and Barry West : Personal Communication System And Technologies, Artech House Inc, 1995
5. Lee, William C. Y., Mobile Cellular Telecommunication System ( USA : McGrow Hill, 1989)
6. Lee, William C. Y., Mobile Cellular Telecommunication Analog and Digital System – 2<sup>nd</sup> ed ( USA : McGrow Hill, 1995 )
7. Mobile Communication System, Siemens AG 1995, Introduce GSM D900.
8. Macario, Raymond C. V. : Celluler Radio Principles And Design, United States of America, 1993



DATA PENGAMATAN BIS DI SELAMA 4 MINGGU

Time	Number Of Sample	KUALITAS UP LINK (dB)				LEVEL UP LINK (dBm)				KUALITAS DOWN LINK (dB)				LEVEL DOWN LINK (dBm)			
		1st Week	2nd Week	3rd Week	4th Week	1st Week	2nd Week	3rd Week	4th Week	1st Week	2nd Week	3rd Week	4th Week	1st Week	2nd Week	3rd Week	4th Week
0:00.00		20.12	26.76	25.35	27.63	-93.23	-93.56	-94.32	-94.35	27.96	29.56	27.63	26.31	-94.56	-95.63	-93.56	-95.33
0:15.00	1	22.33	27.61	25.98	29.34	-92.56	-94.58	-92.15	-85.88	26.35	31.23	26.35	25.35	-92.35	-94.31	-94.51	-94.69
0:30.00	2	21.52	26.75	28.12	28.51	-91.47	-92.31	-93.28	-94.15	24.35	29.69	28.49	27.45	-90.74	-98.78	-93.29	-94.21
0:45.00	3	22.41	26.56	28.65	27.54	-90.01	-94.69	-92.58	-92.77	26.39	29.48	26.97	26.1	-89.25	-95.32	-94.55	-93.2
1:00.00	4	20.94	28.32	28.96	26.68	-91.23	-91.88	-90.14	-92.56	25.69	31.54	27.15	25.32	-89.71	-85.34	-89.69	-89.36
1:15.00	5	21.89	26.02	25.36	25.41	-93.87	-92.58	-92.08	-93.24	24.38	30.88	24.39	26.45	-86.59	-86.77	-88.55	-90.11
1:30.00	6	22.42	26.44	27.58	28.98	-89.64	-93.2	-92.57	-95.36	26.97	27.06	25.98	27.34	-84.81	-84.12	-92.01	-92
1:45.00	7	21.13	27.96	26.99	27.35	-88.17	-90.11	-93.82	-94.02	27.88	30.89	26.18	26.54	-83.55	-89.99	-93.55	-85.86
6:00.00	8	20.21	29.91	29.32	26.99	-89.85	-94.06	-90.45	-85.26	27.2	29.85	24.78	26.54	-90.02	-92.35	-94.58	-84.84
6:15.00	9	19.43	28.78	28.65	29.37	-90.89	-92.77	-93.33	-91.07	27.34	29.45	24.38	24.31	-89.64	-96.47	-91.75	-87.82
6:30.00	10	18.45	28.06	29.44	25.77	-92.98	-90.54	-94.96	-91.44	26.15	28.57	25.57	26.34	-84.78	-96.28	-96.38	-88.12
6:45.00	11	17.42	27.67	25.68	28.11	-91.35	-90.03	-91.95	-92.85	28.64	27.64	24.8	26.98	-86.36	-95.1	-84.33	-85.38
7:00.00	12	17.81	29.43	31.35	29.02	-92.82	-92.88	-91.27	-92.56	25.99	28.34	25.13	26.99	-85.69	-96.55	-85.77	-90.35
7:15.00	13	15.36	26.82	30.25	26.35	-90.3	-95.36	-93.8	-94.1	26.71	26.17	26.32	27.6	-92.88	-94.85	-94.41	-93.25
7:30.00	14	17.12	26.45	30.78	27.21	-91.28	-94.27	-92.35	-90.12	28.25	27.31	27.64	24.31	-95.51	-93.02	-86.36	-95.33
7:45.00	15	16.14	29.86	31.65	28.59	-93.85	-94.21	-90.29	-92.45	26.39	25.3	26.48	25.38	-96.77	-89.69	-84.28	-94.86
12:00.00	16	18.21	28.63	29.64	25.68	-92.64	-93.89	-93.66	-93.89	25.76	24.36	28.1	26.88	-96.56	-92.88	-89.19	-97
12:15.00	17	14.92	26.19	27.35	28.56	-91.77	-92.1	-92.54	-92.97	26.48	25.87	24.77	28.78	-92.22	-94.56	-86.57	-86.92
12:30.00	18	15.16	26.03	33.63	26.85	-90.31	-94.34	-91.08	-93.66	27.85	26.35	26.45	27.48	-97.25	-91.5	-92.33	-87.85
12:45.00	19	15.71	27.15	29.33	26.71	-94.59	-91.98	-90.44	-95.44	26.98	25.94	28.33	26.84	-95.55	-85.22	-92	-95
13:00.00	20	14.26	27.09	29.48	27.01	-95.64	-92.88	-94.55	-94.02	25.65	27.31	27.91	28.38	-94.15	-86.97	-94.5	-86.24
13:15.00	21	15.32	27.5	26.88	28.64	-94.22	-93.01	-92.11	-93.58	28.77	29.65	26.02	26.14	-90.32	-84.2	-95.88	-94.25
13:30.00	22	16.43	26.07	27.02	25.38	-94.11	-90.69	-95.87	-94.77	27.1	29.34	27.54	25.07	-89.68	-86.33	-89.76	-94.11
13:45.00	23	17.21	28.69	27.94	27.79	-94.31	-92.55	-95.68	-94.26	27.65	30.55	28.66	25.07	-92.38	-89.94	-84.19	-92.2
14:00.00	24	16.92	26.42	29.01	27.22	-93.28	-92.31	-92.37	-91.38	28.44	25.25	24.33	26.52	-92.11	-90.28	-86.24	-92.88
14:15.00	25	17.23	27.39	27.95	28.34	-91.55	-91.7	-92.19	-92.4	28.5	28.77	24.15	27.79	-85.25	-96.85	-85.29	-84.96
14:30.00	26	16.47	26.12	9.7	27.11	-90.21	-90.87	-94.58	-92.17	27.99	26.94	28.36	27.01	-84.02	-93.08	-90.25	-85.51
14:45.00	27	17.54	27.05	27.81	26.48	-88.03	-92.31	-93.04	-94.35	26.49	25.1	27.35	26.83	-85.39	-89.69	-92.08	-88.85
19:00.00	28	15.36	27.39	27.95	26.59	-92.47	-93.65	-94.44	-92.32	25.35	27.39	25.88	25.63	-85.74	-85.22	-94.15	-94.21
19:15.00	29	16.62	27.12	23.84	25.61	-92.69	-93.95	-95.39	-93.18	24.66	26.58	26.49	24.89	-86.31	-87.77	-93.17	9.21
19:30.00	30	17.61	28.01	29.58	28.68	-93.55	-92.21	-92.1	-91.66	28.31	29.85	27.89	28.65	-91.6	-86.15	-86.33	-89.21
19:45.00	31	16.23	26.55	23.98	27.1	-93.63	-92.33	-91.79	-93.47	24.78	28.99	27.53	25.48	-91.66	-83.99	-89.7	-9.68
SUM		577.9	876.8	891.2	876.8	-2947.2	-2966.4	-2971.2	-2985.6	857.6	900.8	848	852.8	-2887.4	-2899.2	-2899.2	-2535.3
MEAN		18.1	27.4	27.85	27.4	-92.1	-92.7	-92.85	-93.3	26.8	28.15	26.5	26.65	-90.23	-90.6	-90.6	-79.24

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## EDUCATIONAL BACKGROUND

YEARS	INSTITUTION
1993 – 2000	GRADUATED FROM DARMA PERSADA UNIVERSITY MAJORING IN ELECTRICAL ENGINEERING
1989 – 1992	GRADUATED FROM SMAN 22 EAST JAKARTA
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