

DAFTAR ISI

LEMBAR PENGESAHAN	ii
HALAMAN PERNYATAAN ORISINALITAS	iii
ABSTRAK	iv
ABSTRACT.....	v
KATA PENGANTAR.....	vi
UCAPAN TERIMA KASIH.....	vii
DAFTAR ISI.....	viii
DAFTAR GAMBAR	x
DAFTAR TABEL.....	xii
DAFTAR ISTILAH	xiii
DAFTAR SINGKATAN.....	xiv
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang	1
1.2 Tujuan	2
1.3 Rumusan Masalah	2
1.4 Batasan Masalah.....	2
1.5 Metodologi	2
1.6 Sistematika Penulisan.....	3
BAB II DASAR TEORI	4
2.1 Sejarah 4G LTE.....	4
2.1.1 Arsitektur Jaringan LTE.....	5
2.2 Handover	7
2.3 RSRP	7
2.4 SINR.....	8
2.5 <i>Drive Test</i>	8
2.6 Optimasi Jaringan.....	9
2.7 LTE Frekuensi Reuse	9
2.8 GENEX PROBE	10
2.9 GENEX ASISSTANT.....	10
2.10 Morfologi Area.....	10
2.11 <i>Tilting</i> Antena.....	11
2.12 Audit Site.....	12
2.13 Complaint	12
BAB III DRIVE TEST.....	13
3.1 Deskripsi Proyek Akhir.....	13

3.2	Pengerjaan Proyek Akhir	13
3.2.1	Data Komplain	14
3.2.2	Survei Lokasi.....	15
3.2.3	<i>Drivetest Before</i>	16
3.2.4	Rute Drivetest Before	17
3.2.5	Serving PCI Before	18
3.2.6	RSRP Before	19
3.2.7	SINR Before.....	21
3.2.8	Analisa hasil <i>drivetest</i>	22
3.2.9	Optimasi	22
3.2.10	Drivetest After.....	22
BAB IV ANALISIS DAN OPTIMASI		23
4.1	Deskripsi Optimasi	23
4.2	Proses Optimasi.....	23
4.3	Perhitungan <i>Tilting</i> dan <i>Bearing Antenna</i>	23
4.3.1	<i>Bearing antenna</i>	24
4.3.2	<i>Tilting antenna</i>	30
4.4	Audit Site.....	33
4.4.1	Proses Audit Site (Downtilt antenna).....	34
4.4.2	Hasil Audit Site (<i>Bearing antenna</i>).....	34
4.5	Drivetest After.....	35
4.5.1	<i>Drivetest After bearing antenna</i>	36
4.5.2	<i>Drivetest After Downtilt antenna</i>	37
4.6	Perbandingan Hasil Drivetest before dan Drivetest After	39
4.6.1	Perbandingan Serving PCI (Physical Cell ID)	39
4.6.2	Perbandingan Nilai <i>RSRP</i> (<i>Reference Signal Received Power</i>)	41
4.6.3	Perbandingan Nilai SINR (<i>Signal to Interference and Noise Ratio</i>).....	44
BAB V PENUTUP		47
5.1	KESIMPULAN	47
5.2	SARAN	47
DAFTAR PUSTAKA		48
LAMPIRAN.....		49