

DAFTAR GAMBAR

Gambar I. 1 <i>HMI eksisting simulator bottling plant.</i>	2
Gambar II. 1 Struktur dasar sistem SCADA	7
Gambar II. 2 Struktur Metode <i>Waterfall</i>	10
Gambar II. 3 <i>Black Box Testing</i>	12
Gambar II. 4 <i>Wonderware InTouch</i>	12
Gambar II. 5 <i>SQL Server</i>	14
Gambar II. 6 <i>TIA Portal</i>	14
Gambar III. 1 Sistematika Perancangan Bagian 1	18
Gambar III. 2 Sistematika Perancangan Bagian 2	19
Gambar III. 3 Sistematika Perancangan Bagian 3	19
Gambar IV. 1 HMI Eksisting	25
Gambar IV. 2 Proses Usulan	26
Gambar IV. 4 <i>Usecase Diagram</i>	28
Gambar IV. 5 <i>Ladder Diagram</i>	29
Gambar IV. 6 <i>Login Window</i>	30
Gambar IV. 7 <i>Main Menu</i>	30
Gambar IV. 8 <i>Station Window</i>	31
Gambar IV. 9 <i>Database Window</i>	31
Gambar IV. 10 <i>Setting Window</i>	32
Gambar IV. 11 <i>System Management Console</i>	33
Gambar IV. 12 Penambahan <i>S7Cp Object</i>	33
Gambar IV. 13 Pengisian <i>Network Address</i>	34
Gambar IV. 14 Pengisian <i>Output dan Input</i>	34
Gambar IV. 15 <i>File InTouch Wonderware</i>	35
Gambar IV. 16 Penambahan <i>Access Name</i>	36
Gambar IV. 17 Penyesuaian <i>Server Local</i>	36
Gambar V. 1 Perbandingan HMI Eksisting dan Usulan	37
Gambar V. 2 <i>Login Window</i>	38

Gambar V. 3 <i>Window Home</i>	39
Gambar V. 4 <i>Window Setting</i>	40
Gambar V. 5 <i>Packaging Window</i>	40