

DAFTAR GAMBAR

Gambar I.1 <i>The Asian Market for Building Automation Equipment</i>	1
Gambar I.2 Luas Areal dan Produksi Teh Dunia.....	2
Gambar I.3 <i>Using of Automation Technology</i>	3
Gambar I.4 Pencapaian Produksi Tahun 2013.....	4
Gambar I.5 <i>Cause and Effect Diagram</i> Pencapaian Produksi	5
Gambar II.1 Elemen dari Sistem Otomasi	12
Gambar II.2 <i>Closed Loop Control System</i>	13
Gambar II.3 <i>Open Loop Control System</i>	14
Gambar II.4 Simbol <i>Solenoid</i>	15
Gambar II.5 (a) <i>Roller conveyor</i> , dan (b) <i>Skate-wheel conveyor</i>	17
Gambar II.6 Silinder Hidraulik	17
Gambar II.7 Simbol Diagram <i>Double-Acting Cylinder</i>	18
Gambar II.8 Simbol Diagram <i>Single-Acting Cylinder</i>	18
Gambar II.9 PLC Omron CP1E	19
Gambar II.10 <i>Modular PLC Omron</i>	20
Gambar II.11 Sensor Suhu LM35	21
Gambar II.12 Sensor Suhu PT 100	21
Gambar II.13 <i>Piping and Instrumentation Diagram (P&ID)</i>	26
Gambar III.1 Model Konseptual	37
Gambar III.2 Sistematika Pemecahan Masalah	39
Gambar IV.1 Mesin <i>Open Top Roller (OTR)</i>	44
Gambar IV.2 Mesin <i>Double Indian Ballbreaker Net Sorteer (DIBN)</i>	45
Gambar IV.3 Mesin <i>Rotorvane (RV)</i>	45
Gambar IV.4 Mesin <i>Press Cap Roller (PCR)</i>	46

Gambar IV.5 Diagram Alir Penggilingan Teh.....	46
Gambar IV.6 <i>Layout</i> Pabrik Teh Hitam Orthodox PT. ABC.....	47
Gambar IV.7 <i>Layout</i> Ruang Penggilingan.....	47
Gambar IV.8 Alur Proses Penggilingan.....	52
Gambar IV.9 <i>Flowchart</i> Proses Penggilingan Eksisting	53
Gambar IV.10 <i>Flowchart</i> Proses Penggilingan Eksisting Lanjutan	55
Gambar IV.11 <i>Flowchart</i> Proses Penggilingan Eksisting Lanjutan 2	56
Gambar IV.12 <i>Flowchart</i> Usulan Proses Pengaturan Kelembaban.....	57
Gambar IV.13 <i>Flowchart</i> Usulan Proses Pengisian di OTR	58
Gambar IV.14 <i>Flowchart</i> Usulan Proses Penggilingan OTR.....	59
Gambar IV.15 <i>Flowchart</i> Usulan Proses di RV I.....	60
Gambar IV.16 <i>Flowchart</i> Usulan Proses di RV II.....	61
Gambar IV.17 <i>Flowchart</i> Usulan Pengisian PCR	62
fGambar IV.18 <i>Flowchart</i> Usulan Proses Gencet-Kirab di PCR	63