

## DAFTAR GAMBAR

	Halaman
Gambar 2.1 Flow Diagram Mill / Pulverizer	12
Gambar 2.2 Coal Bunker	14
Gambar 2.3 <i>Vibrator outlet bunker</i>	15
Gambar 2.4 Panel pengoperasian <i>Vibrator</i> di area kerja	16
Gambar 2.5 <i>Coal Feeder</i>	17
Gambar 2.6 Bagian Dalam <i>Coal Feeder</i>	17
Gambar 2.7 <i>Drawing Coal Feeder</i>	18
Gambar 2.8 <i>Cleanout Coal Feeder</i>	19
Gambar 2.9 Komponen <i>Pulverizer</i>	21
Gambar 2.10 Simbol Gerbang Logika <i>OR</i>	23
Gambar 2.11 Simbol Gerbang Logika <i>AND</i>	24
Gambar 2.12 Simbol Gerbang Logika <i>NOT</i>	24
Gambar 2.13 <i>Yokogawa Centum CS3000 R3</i>	25
Gambar 2.14 <i>Human Interface Stasion (HIS) Pada Yokogawa Centum CS 3000 R3</i>	26
Gambar 2.15 <i>Engineering PC / Engineering Work Station (EWS) Pada Yokogawa Centum CS3000 R3</i>	28
Gambar 2.16 <i>Field Control Station (FCS) Pada Yokogawa Centum CS 3000 R3</i>	28
Gambar. 2.17 <i>Function Block Diagram of Logic Chart Block (LC64)</i>	32
Gambar. 2.18 <i>Logic Chart Processing Flow</i>	33
Gambar. 2.19 Konfigurasi Bagan Masukan Logic	34
Gambar. 2.20 Logika AND	34
Gambar 2.21 Logika OR	35
Gambar 2.22 Logika NOT	35
Gambar 3.1 Diagram Proses Perancangan	37
Gambar 3.2 Diagram Root Cause Problem Solving	38
Gambar 3.3 Kondisi Batubara Basah	39

Gambar 3.4 Kondisi Batubara pada Coal Yard	40
Gambar 3.5 <i>Push Button</i> Operasi Vibrator	40
Gambar 3.6 Sistem Kerja Vibrator Sebelum Modifikasi	41
Gambar 3.7 Sensor <i>no coal on the belt</i>	41
Gambar 3.8 Sistem Kerja Vibrator Setelah Modifikasi	42
Gambar 3.9 <i>Logic Coal Feeder Trip &amp; Permit</i>	43
Gambar 3.10 Diagram <i>Vibrator Manual</i>	44
Gambar 3.11 <i>Logic Vibrator Manual</i>	45
Gambar 3.12 <i>Breaker Coal Bunker Vibrator</i>	46
Gambar 3.13 Diagram Vibrator Automatis	47
Gambar 3.14 <i>Logic Vibrator Automatis</i>	48
Gambar 3.15 Wiring Diagram Vibrator Manual	49
Gambar 3.16 Wiring Diagram Vibrator Automatis	50
Gambar 4.1 Display Coal Feed Trip & Permissive	52
Gambar. 4.2 <i>Alarm No Coal On Belt</i>	53
Gambar 4.3 Kondisi <i>Alarm No Coal On Belt</i> Saat Normal	55
Gambar. 4.4 Normal <i>Display Pulverizer</i>	56
Gambar. 4.5 Kondisi <i>Display Pulverizer</i> Saat Normal, Tidak ada <i>Alarm No Coal On Belt</i>	57
Gambar. 4.6 Kondisi <i>Alarm No Coal On Belt</i> Saat <i>Abnormal</i>	58
Gambar. 4.7 Kondisi <i>Display Pulverizer</i> Saat <i>Abnormal</i> , ada <i>Alarm No Coal On Belt</i>	59
Gambar. 4.8 Kondisi <i>Alarm No Coal On Belt</i> Pada <i>Coal Feeder</i> Bekerja Di Panel <i>Temperature Annunciator Monitoring Board (TAMB)</i>	60