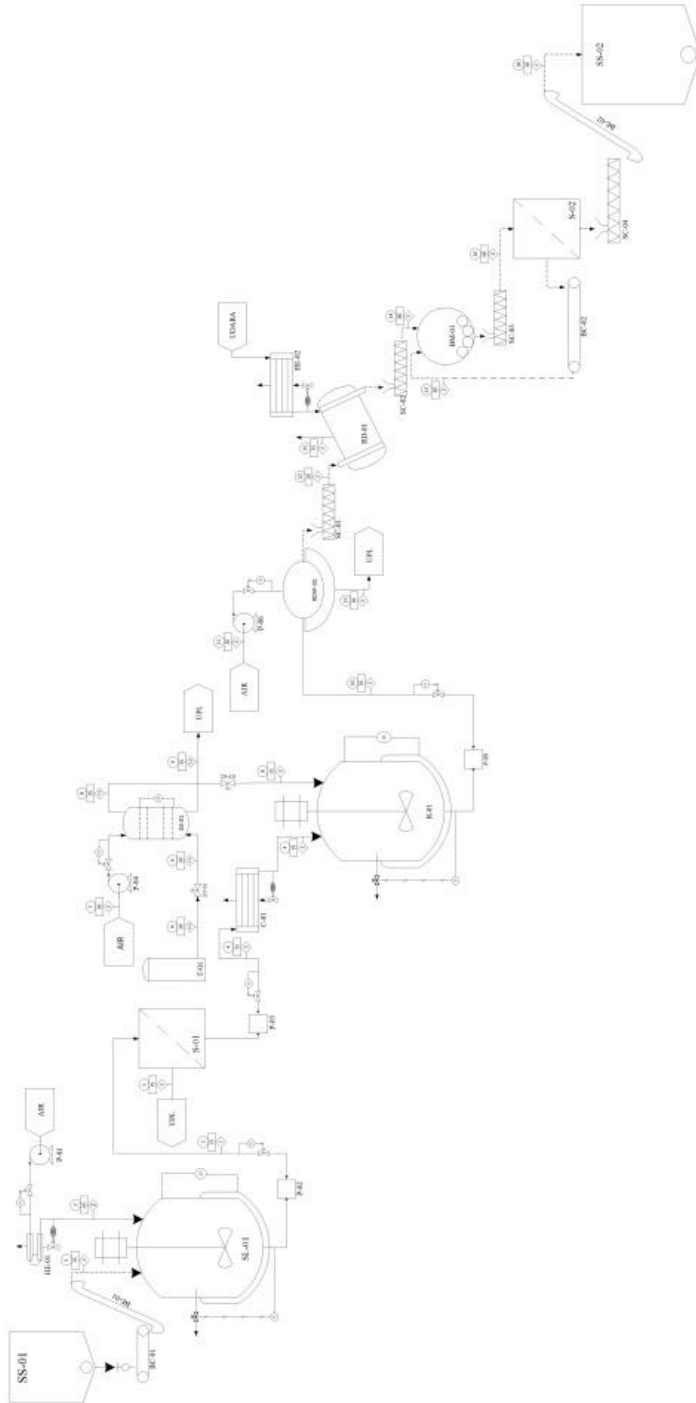


LAMPIRAN

C

PROCESS ENGINEERING FLOW DIAGRAM
PRA RANCANGAN PABRIK KALSIMUM KARBONAT DARI KALSIMUM OKSIDA DAN AIR
DENGAN KAPASITAS PRODUKSI 15.000 TON/TAHUN



Nama Alat	Keterangan
SS	Storage Silo
SI	Slaker
BE	Bucket Elevator
P	Pompa
HE	Heat Exchanger
C	Cooler
S	Screening
T	Tangki
GS	Gas Scrubber
EV	Expansion Valve
R	Reaktor
RDVF	Rotary Drum Vacuum Filter
RD	Rotary Dryer
SC	Screw Conveyor
BC	Belt Conveyor
BM	Ball Mill
Simbol	Keterangan
(TC)	Temperature Control
(FC)	Flow Control
(LI)	Level Indikator
(N)	Nomor Arus
(S)	Suhu, oC
(A)	Tekanan, atm
(V)	Control Valve
(P)	Piping
(---)	Non Piping



JURUSAN TEKNIK KIMIA
 FAKULTAS TEKNOLOGI INDUSTRI
 UNIVERSITAS ISLAM INDONESIA
 YOGYAKARTA

PROSES ENGINEERING FLOW DIAGRAM
 PRA RANCANGAN PABRIK KALSIMUM KARBONAT DARI
 KALSIMUM OKSIDA DAN AIR DENGAN KAPASITAS
 PRODUKSI 15.000 TON/TAHUN

Dibuat oleh:
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Komponen	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CaO	1288	0	38.6290	36.6975	1.9314	0	0	0	0	36.6975	0	34.8626	1.8349	34.8278	0.03486	36.9174	2.0897	34.8278
SiO2	27.1080	0	27.1080	25.7526	1.3554	0	0	0	0	25.7526	0	24.4650	1.2876	24.4405	0.02447	25.9070	1.4664	24.4405
MgO	16.2648	0	16.2648	15.4516	0.8132	0	0	0	0	15.4516	0	14.6790	0.7726	14.6643	0.01468	15.5442	0.8799	14.6643
Fe2O3	2.8463	0	2.8463	2.7040	0.1423	0	0	0	0	2.7040	0	2.5688	0.1352	2.5663	0.00257	2.7202	0.1540	2.5663
Al2O3	6.0993	0	6.0993	5.7943	0.3050	0	0	0	0	5.7943	0	5.5046	0.2897	5.4991	0.00550	5.8291	0.3299	5.4991
S	0.0949	0	0.0949	0.0901	0.0047	0	0	0	0	0.0901	0	0.0856	0.0045	0.0855	0.00009	0.0907	0.0051	0.0855
P	0.0407	0	0.0407	0.0386	0.0020	0	0	0	0	0.0386	0	0.0367	0.0019	0.0367	0.00004	0.0389	0.0022	0.0367
Moisture	15.3160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H2O	0	7888	7502	7465	37.5114	0	984	0	984	1000	414	8414	8414	20.6894	393	21.9307	1.2414	20.6894
Ca(OH)2	0	0	1650	1568	82.5234	0	0	0	0	78.3972	0	74.4774	3.9199	74.4029	0.07448	78.8671	4.4642	74.4029
CO2(g)	0	0	0	0	0	886	0	886	0	0	0	0	0	0	0	0	0	0
Impurities	0	0	0	0	0	98.4085	0	98.4085	0	0	0	0	0	0	0	0	0	0
CaCO3	0	0	0	0	0	0	0	0	0	2013	0	1912	101	1910	1.91226	2025	115	1910
Total	1355	7888	9244	9119	125	984	984	886	1082	10005	1000	2483	8523	2088	395	2213	125	2088