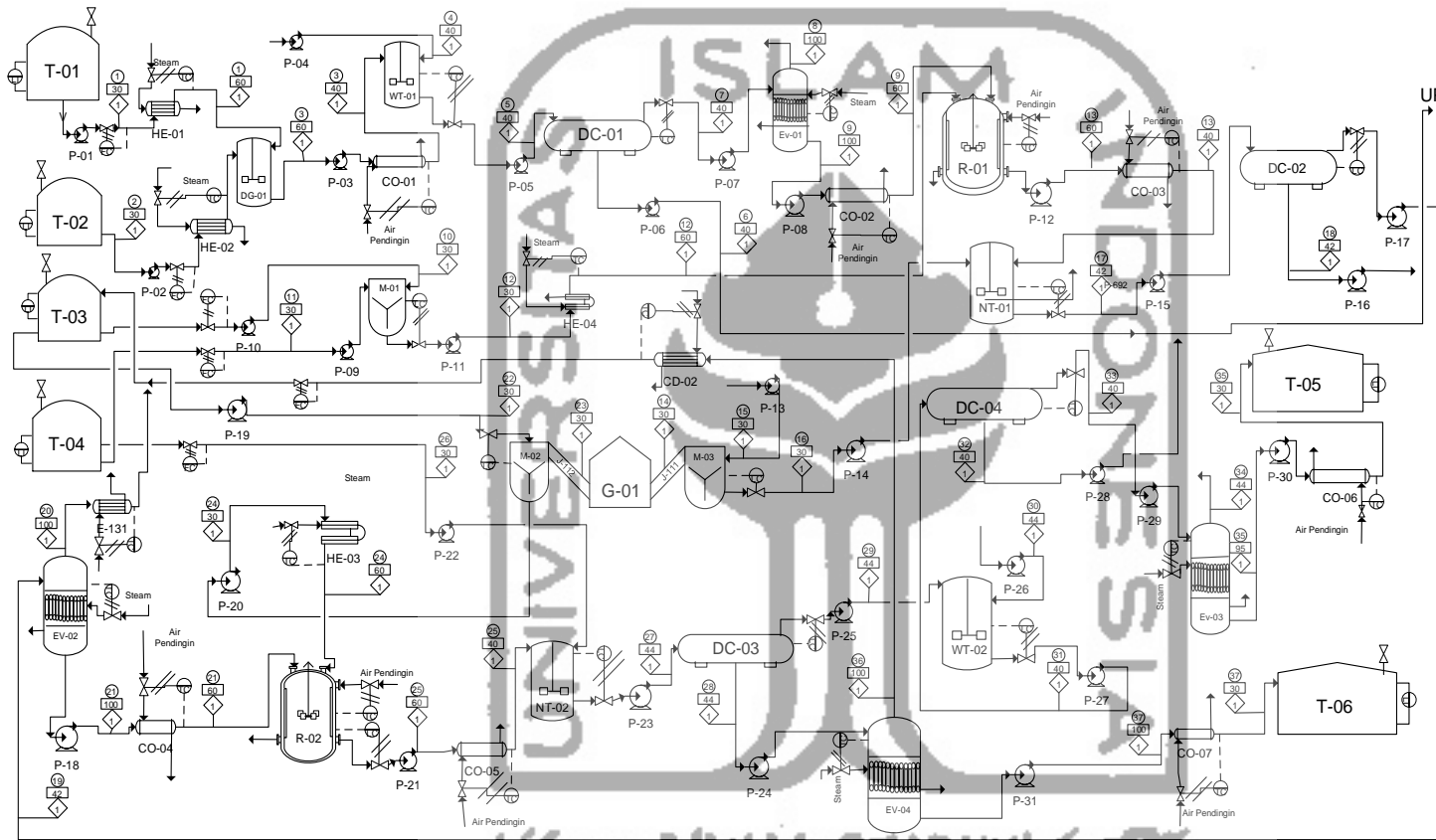


LAMPIRAN B  
PROCESS ENGINEERING FLOW DIAGRAM



SIMBOL	ALAT
○	Tekanan Arus
□	Suhu
◇	Nomor Arus
—	Arus Utama
- - -	Indikator Elektrik
⚡	Udara Tekan
⊗	Control Valve
LI	Level Indikator
TC	Temperature Control
LC	Level Control

Alat	Keterangan
T	Tangki Penyimpanan
G	Gudang Penyimpanan
DG	Degummer
WT	Washing Tower
NT	Netralizer
M	Mixer
R	Reaktor
DC	Dekanter
EV	Evaporator
BE	Bucket Elevator
P	Pompa
HE	Heat Exchanger
CD	Condensor
CO	Cooler

**JURUSAN TEKNIK KIMIA  
FAKULTAS TEKNOLOGI INDUSTRI  
UNIVERSITAS ISLAM INDONESIA  
YOGYAKARTA**

PROCESS ENGINEERING FLOW DIAGRAM  
PABRIK BIODIESEL DARI MINYAK NYAMPLUNG  
KAPASITAS 100.000 TON/TAHUN

Disusun Oleh :  
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1. Ir. Bachrun Sutrisno M.Sc.  
2. Ajeng Yulianti Dwi Lestari, S.T.M.T.

Komponen	No Arus (Kg/Jam)																																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
Triptiserida	10192.84		10192.84		10192.839		10192.8395		10192.839		10192.839		10192.839		10192.839		10192.839		203.857	9988.983		9988.983				998.898		998.898	948.184	50.714	50.714					948.184	
FFA	4299.92		4299.92		4299.992		4299.9221		4299.992		4299.992		4299.992		4299.992		4299.992		394.469	394.469		394.469				394.469		394.469	374.443	20.027	20.027					374.443	
CH3OH											9877.782		9877.782		9462.501		9462.501		189.250	9273.251		9273.251				3292.317		3292.317	2304.622	2187.617	117.006					2187.617	
NaCl																											2.472		2.472	148.561	141.018	7.542					141.018
Glycerol																											946.541		946.541	898.485	48.056					898.485	
NaOH																																					
RCOOH(CH3)																																					
H2O	50.96	174.73	225.7	1344.656	1570.335	785.177	785.1775	706.66	78.518	19.795	60.09	79.885	3797.231	40.128	40.128	391.999	75.845	3721.287		3721.287																	
HCl													33.801	33.801	33.801																						
H3PO4		43.68	43.68		43.684	43.6836																															
Gum	17.47		17.47		17.473	17.4734																															
Total	14561.20	218.42	14779.617	1344.656	16124.2737	846.3346	15277.939	706.660	14571.279	9897.578	93.890	9991.468	24562.747	40.128	37.042	77.170	24639.917	1089.820	23550.098	9425.924	14124.174	3298.915	99.890	398.805	17522.979	253.193	17776.172	5023.647	12752.525	258.19	13008.718	244.487	12752.525	126.263	12626.263	2384.582	2639.065