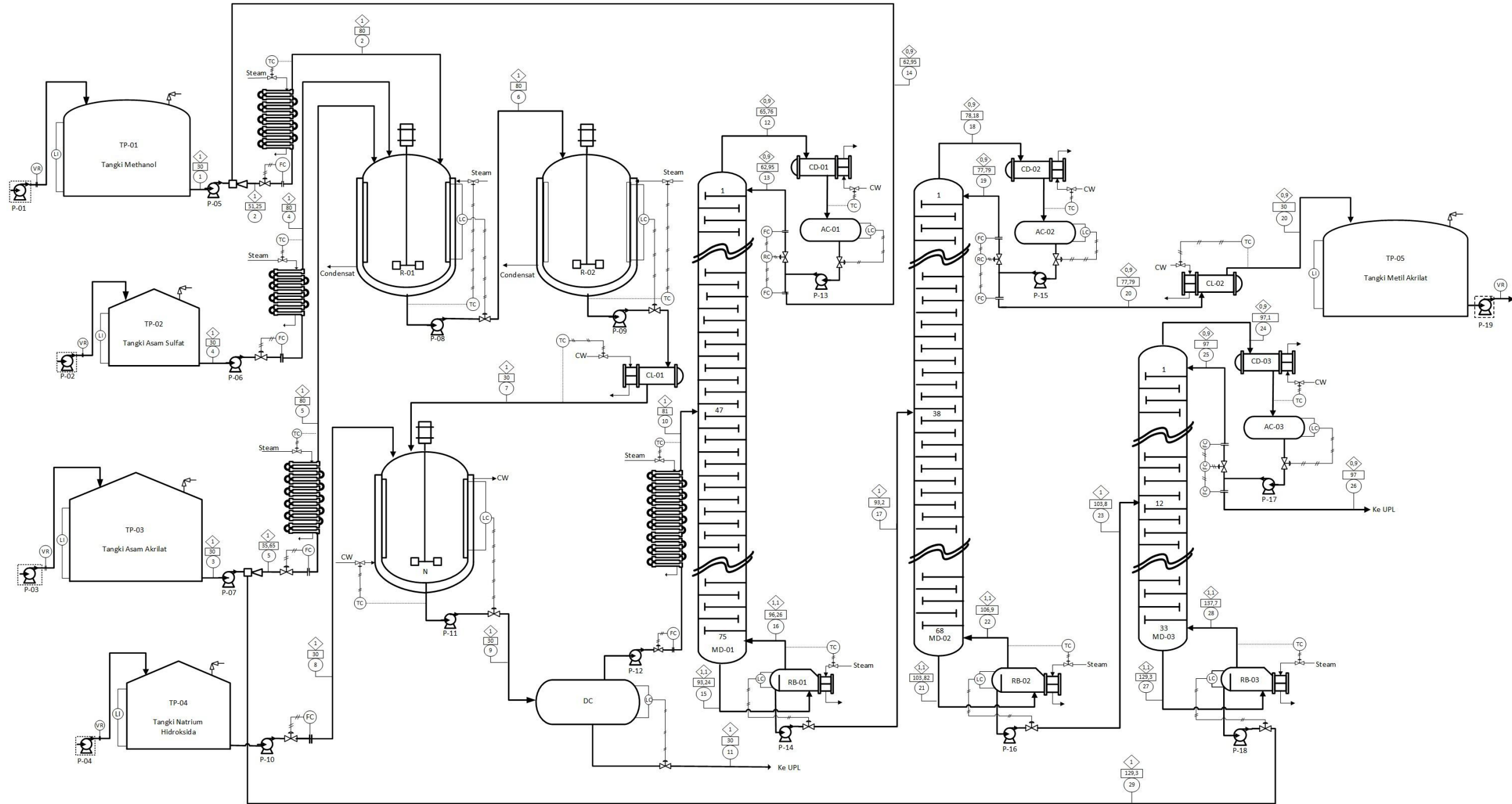


PROCESS ENGINEERING FLOW DIAGRAM
PABRIK METIL AKRILAT DARI METANOL DAN ASAM AKRILAT
KAPASITAS : 30.000 TON/TAHUN



Komponen	Nomor 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
C2H3COOH					3523,6082	1057,0825	352,3608		352,3608	325,9720	26,7888				840,3759	514,8039	325,5720			1988,6101	1643,6773	325,5720	4,9582	1,7025	3,2557	7211,0979	6888,7816		322,3163
CH3OH	1413,2321	3132,0962				2035,8625	1722,6529		1722,6529			6174,0312	4455,1671	1718,8641	9,7798	5,9910	3,7888	34,0505	30,2626	3,7879									
H2SO4				332,7852		332,7852																							
C2H3COOCH3		17,9048			2964,0328	3805,7836			3805,7836	3805,7836		64,3128	46,4080	17,9048	9777,3834	5989,5046	3787,8788	33880,2690	30111,3296	3768,9394	109,1896	90,2502	18,8394	28,8433	9,5039	18,9394			
H2O	58,8847	112,5992	204,3378	6,7915	224,9112	960,9333	1137,1137	271,6614	1531,0227	0,3721	26,7888	192,9385	139,2240	53,7145	3744,1231	2293,6037	1450,5194	136,2021	121,0506	15,1515	8275,1982	6839,8303	1439,3679	2154,6283	739,8338	1414,7945	460,2828	439,7095	20,5734
NaOH								271,6614																					
Na2SO4											482,1990																		
TOTAL	1472,1167	3262,6002	3405,6297	339,5768	3748,5193	7350,6963	7350,6963	543,3228	7894,0191	5854,3806	535,7767	6431,2823	4640,7990	1790,4834	14371,6622	8803,9032	5567,7590	34050,5216	30262,6428	3787,8788	10372,9979	8573,7578	1779,8793	2188,4299	751,4402	1436,9896	7671,3807	7328,4911	342,8896

Simbol	Keterangan	Simbol	Keterangan	Simbol	Keterangan	Simbol	Keterangan
○	Nomor Arus	T-01	T. Metanol	MD	Menara Destilasi	TC	Temperatur Control
◇	Tekanan, atm	T-02	T. Asam Sulfat	RB	Reboiler	LC	Level Control
○	Temperature, °C	T-03	T. Asam Akrilat	CD	Condensator	LI	Level Indicator
□	Gate Valve	T-04	T. Natrium Hidroksida	HE	Heater	FC	Flow Control
—	Piping	T-05	T. Metil Akrilat	AC	Accumulator	VR	Volume Recorder
—	Elektrik Connection	R	Reaktor	CL	Cooler	RC	Ratio Control
—	Udara Tekan	N	Neutralizer	CW	Cooling Water		
—	Ejector	DC	Decanter	S	Steam		
		P	Pompa				

Universitas Islam Indonesia
 Fakultas Teknologi Industri
 Jurusan Teknik Kimia
 Gambar:
 Process Engineering Flow Diagram
 Pra Rancangan Pabrik Metil Akrilat
 Kapasitas 30.000 Ton/Tahun
 Disusun Oleh:
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 Dosen Pembimbing:
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 Ajeng Yulianti Dwi Lestari, S.T., M.T.