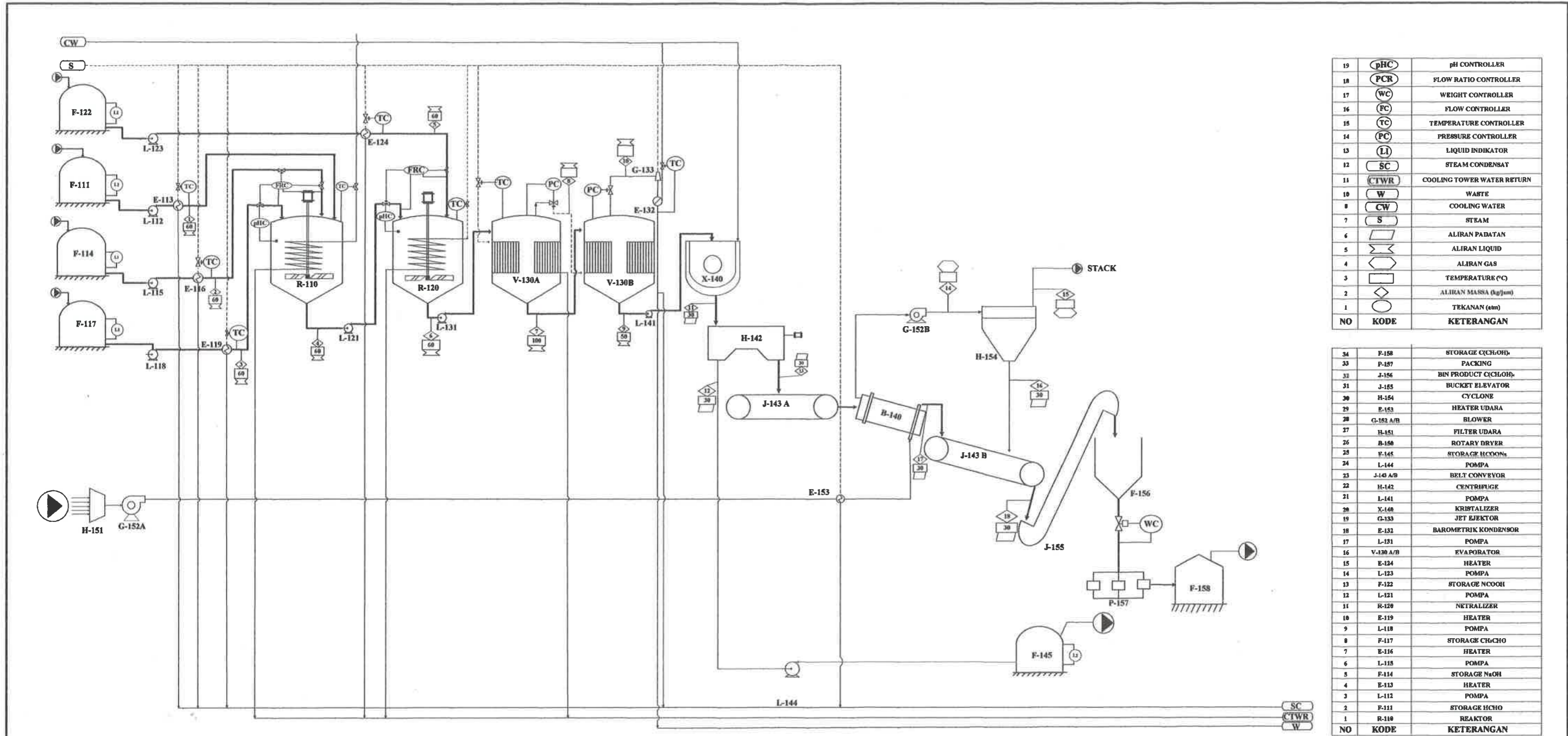


FLWSHEET

PRA RENCANA PABRIK PENTAERYTHRITOL

KAPASITAS 70.000 TON/TAHUN



15	PHC	pH CONTROLLER
14	PCR	FLOW RATIO CONTROLLER
17	WC	WEIGHT CONTROLLER
16	FC	FLOW CONTROLLER
15	TC	TEMPERATURE CONTROLLER
14	PC	PRESSURE CONTROLLER
13	LI	LIQUID INDIKATOR
12	SC	STEAM CONDENSAT
11	CTWR	COOLING TOWER WATER RETURN
10	W	WASTE
9	CW	COOLING WATER
7	S	STEAM
6		ALIRAN PADATAN
5		ALIRAN LIQUID
4		ALIRAN GAS
3		TEMPERATUR (°C)
2		ALIRAN MASSA (kg/jam)
1		TEKANAN (atm)
NO	KODE	KETERANGAN

34	F-158	STORAGE C(CH ₂ OH) ₅
33	P-157	PACKING
32	J-156	BIN PRODUCT C(CH ₂ OH) ₅
31	J-155	BUCKET ELEVATOR
30	H-154	CYCLONE
29	E-153	HEATER UDARA
28	G-152 A/B	BLOWER
27	H-151	FILTER UDARA
26	B-150	ROTARY DRYER
25	F-145	STORAGE HCOONa
24	L-144	POMPA
23	J-143 A/B	BELT CONVEYOR
22	H-142	CENTRIFUGE
21	L-141	POMPA
20	X-140	KRISTALIZER
19	G-133	JET EJEKTOR
18	E-132	BAROMETRIK KONDENSOR
17	L-131	POMPA
16	V-130 A/B	EVAPORATOR
15	E-124	HEATER
14	L-123	POMPA
13	F-122	STORAGE NCOOH
12	L-121	POMPA
11	R-120	NETRALIZER
10	E-119	HEATER
9	L-118	POMPA
8	F-117	STORAGE C(CH ₂ OH) ₄
7	E-116	HEATER
6	L-115	POMPA
5	F-114	STORAGE NaOH
4	E-113	HEATER
3	L-112	POMPA
2	F-111	STORAGE HCHO
1	R-110	REAKTOR
NO	KODE	KETERANGAN

Komponen	Aliran (kg/jam)																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
HCHO	8663,2620			866,3262		866,3262	866,3262		866,3262		866,3262	865,4599	0,8663	0,0087	0,0001	0,0086	0,8577	0,8662
NaOH		11707,1108		9110,6639														
CH ₂ CHO			23180,0793	20320,2681		20320,2681	20320,2681		20320,2681		20320,2681	20299,9478	20,3203	0,0234	0,0020	0,2012	0,2032	0,4044
HCOOH					10478,0502													
C(CH ₂ OH) ₄				8838,3838		8838,3838	8838,3838		8838,3838		8838,3838	202,6649	8635,7189	86,3572	0,8636	85,4936	8549,3617	8634,8553
HCOONa				4414,8101		19905,9227	19905,9227		19905,9227		19905,9227	19886,0167	19,9059	0,1991	0,0020	0,1971	19,7069	19,9039
CH ₂ O	2341,4222			2341,4222		2341,4222	2341,4222		2298,9740		2341,4222	2339,0807	2,3414	0,0234	0,0002	0,0232	2,3180	2,3412
H ₂ O	12409,5374	11707,1108	234,1422	24350,7904	213,8378	28662,2288	14624,4236	14037,8051	586,6185	14037,8051	586,6185	410,6329	175,9855	172,4658	1,7247	170,7412	3,5197	174,2609
TOTAL	23414,2215	23414,2215	23414,2215	70242,6646	10691,8880	80934,5516	66896,7465	14037,8051	52858,9414	14037,8051	52858,9414	44003,8030	8855,1384	259,2574	2,5926	256,6648	8575,9672	8832,6319

JURUSAN TEKNIK KIMIA
FAKULTAS TEKNOLOGI INDUSTRI
INSTITUT TEKNOLOGI NASIONAL
MALANG

PRA RENCANA
PABRIK PENTAERYTHRITOL

DIRANCANG OLEH:	DOSEN PEMBIMBING:
Dulomo Nawiya 2014983	M. Istianasy Indha, ST.MT