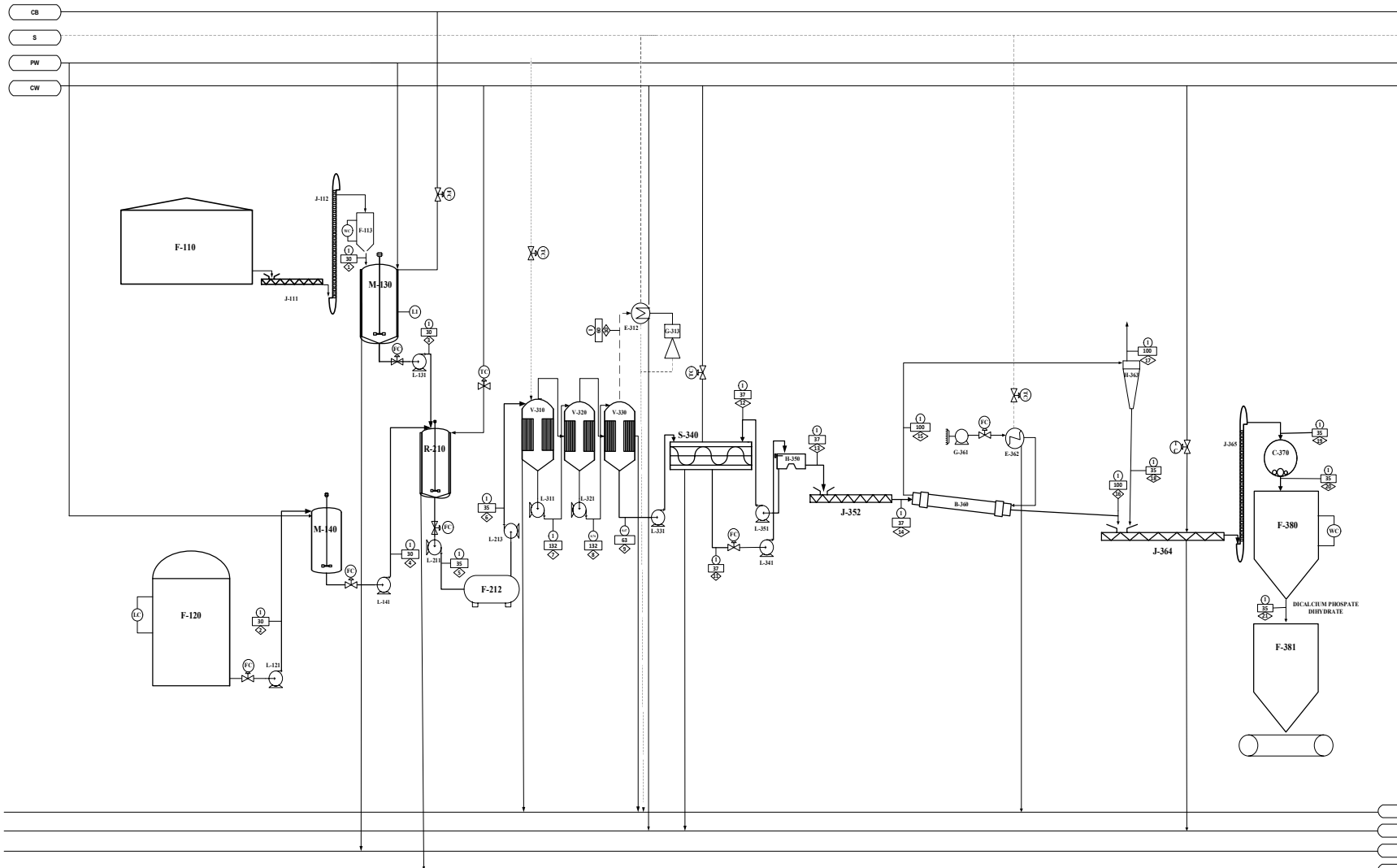


PRA RANCANGAN PABRIK DICALCIUM PHOSPHATE DIHYDRATE DARI CALCIUM HYDROXIDE DAN PHOSPORIC ACID DENGAN PROSES PRESIPITASI DENGAN KAPASITAS 40.000 TON/TAHUN



KETERANGAN :

	Temperatur : °C
	Aliran Massa : kg/jam
	Tekanan : atm
	Steam
	Steam Condensate
	Cooling Water
	Cooling Water Return
	Process Water
	Waste Treatment Plant
	Cooling Brine
	Cooling Brine Return

NO	KODE	NAMA ALAT	JUMLAH
1	F-110	GUDANG KALKSIUM HIDROKSIDA	1
2	J-111	SCREW CONVEYOR - 1	1
3	J-112	BUCKET ELEVATOR - 1	1
4	F-113	HOPPER KALKSIUM HIDROKSIDA	1
5	F-120	TANGKI PENYIMPANAN ASAM FOSFAT	1
6	F-121	POMPA 1	1
7	M-130	MIXING TANK KALKSIUM HIDROKSIDA	1
8	L-131	POMPA 2	1
9	M-140	MIXING TANK ASAM FOSFAT	1
10	L-141	POMPA 3	1
11	R-210	REAKTOR	1
12	L-211	POMPA 4	1
13	F-212	TANGKI AKUMULATOR	1
14	L-213	POMPA 5	1
15	V-310	EVAPORATOR EFFECT I	1
16	L-311	POMPA 6	1
17	V-320	EVAPORATOR EFFECT II	1
18	L-321	POMPA 7	1
19	V-330	EVAPORATOR EFFECT III	1
20	L-331	POMPA 8	1
21	E-312	KONDENSOR	1
22	G-313	STEAM JET EJECTOR	1
23	S-340	CRYSTALLIZER	1
24	L-341	POMPA 9	1
25	H-350	CENTRIFUGE	1
26	L-351	POMPA 10	1
27	J-352	SCREW CONVEYOR - 2	1
28	B-360	ROTARY DRYER	1
29	G-361	BLOWER	1
30	E-362	HEATER	1
31	H-363	CYCLONE	1
32	J-364	COOLING CONVEYOR	1
33	J-365	BUCKET ELEVATOR - 2	1
34	C-370	BALL MILL	1
35	F-380	SILO DICALSIUM FOSFAT DIHIDRAT	1
36	F-381	PACKAGING MACHINE DICALSIUM FOSFAT DIHIDRAT	1

FLOWSHEET
PABRIK DICALCIUM PHOSPHATE DIHYDRATE DARI CALCIUM HYDROXIDE DAN PHOSFORIC ACID DENGAN PROSES PRESIPITASI DENGAN KAPASITAS 40.000 TON/TAHUN

NAMA : IZAAZ DAFFA ULHAQ
NPM : 1903100179

DOSEN PEMBIMBING : PROF. DR. IRI SRI REDJEKI MT. TTD :



PROGRAM STUDI TEKNIK KIMIA
FAKULTAS TEKNIK DAN SAINS
UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN"
JAWA TIMUR
3024

Komponen	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Ca(OH) ₂	2648,277161		2648,2772		487,2830	487,2830	487,2830	487,2830	487,2829975		487,2829975	472,6645076	14,61848993	14,61848993		14,61848993				14,6185	14,6185	14,6185
H ₃ PO ₄		2981,101182		2981,101182	119,2440	119,2440	119,2440	119,2440	119,2440473		119,2440473	115,6667259	3,577321419	3,577321419		3,577321419				3,5773	3,5773	3,5773
CaHPO ₄ ·2H ₂ O			10593,1086		5022,8513	5022,8513	5022,8513	5022,8513	5022,85		5022,851298	2659,779272	5022,851298	5022,851298		50,22851298		0,5023	49,7262	5022,3490	5022,3490	5022,3490
H ₂ O (l)	10593,1086	4471,6518		4471,651773	15064,7604	15064,7604	10957,1871	6849,6138	2742,040487		2742,040487		82,26121461	82,26121461		9,965175922				9,9652	9,9652	9,9652
H ₂ O (g)									4107,573309		4107,573309					72,29603869			72,2960			
TOTAL	13241,3858	7452,7530	13241,3858	7452,7530	20694,1388	20694,1388	20694,1388	16586,5654	12478,9921	4107,5733	8371,4188	3248,1105	5123,3083	5123,3083	122,52455	5000,7838	72,7983	49,7262	5050,5100	5050,5100	5050,5100	

