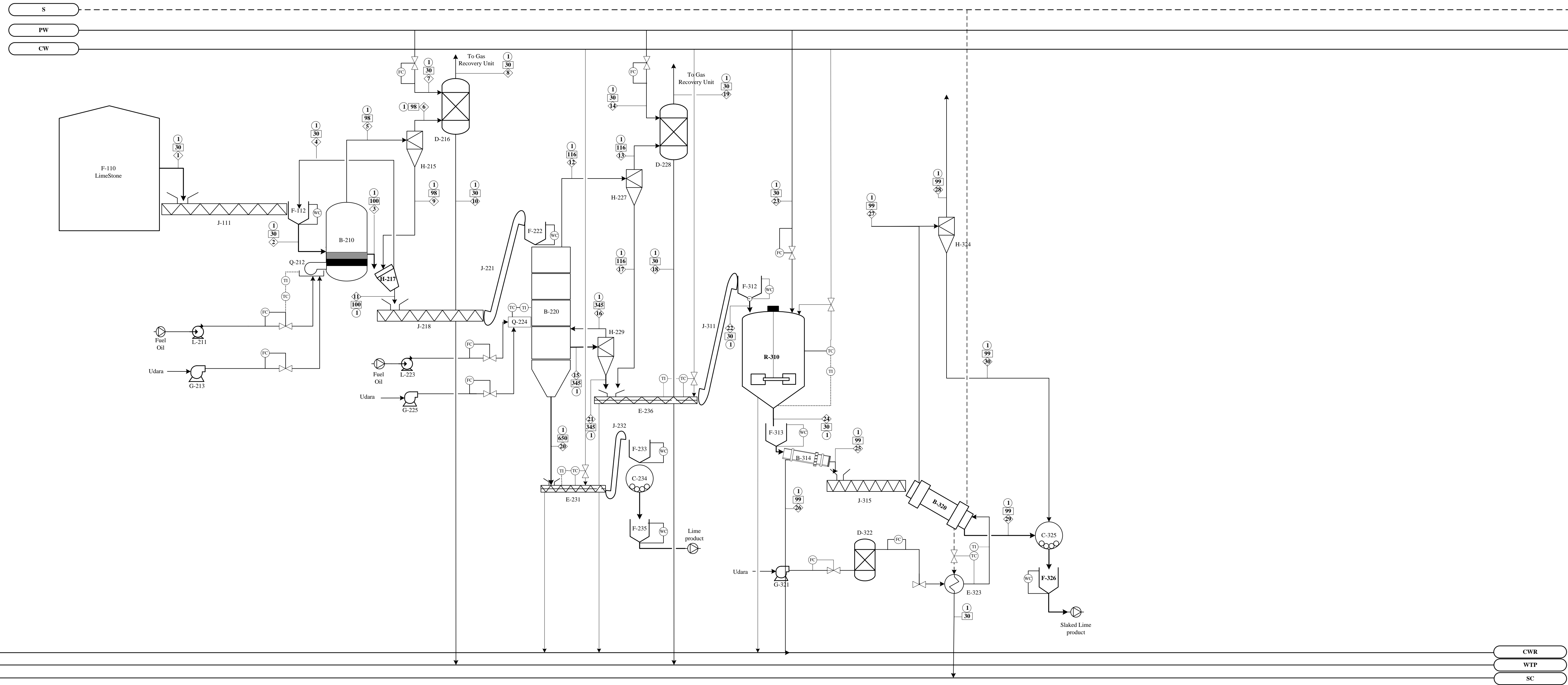


PABRIK LIME DAN SLAKED LIME DARI LIMESTONE DENGAN PROSES KALSINASI



KOMPONEN	LAJU ALIR																															
	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		
CaCO ₃	10003.4268	100.0343	0.1891	500.1213	10003.4268	1.0003			99.0339	1.0003	9502.3051	0.1891	0.00189		9.4073	0.0941	0.1872	0.00189		180.5438	9.3132	9.5004		9.5004	9.3104	0.1900	0.0950	0.0010	9.4054	0.0941		
MgCO ₃	50.7788	0.5078	0.0010	2.5387	50.7788	0.0051			0.5027	0.0051	48.2351	0.0010	0.00001		0.0478	0.0005	0.0010	0.00001		0.9165	0.0473	0.0482		0.0482	0.0473	0.0010	0.0005	0.0000	0.0477	0.0005		
Fe ₂ O ₃	2.0312	0.0203	0.0019	0.1015	2.0312	0.0002			0.0201	0.0002	1.9294	0.0019	0.00002		0.0955	0.0010	0.0019	0.00002		1.8329	0.0946	0.0965		0.0965	0.0945	0.0019	0.0010	0.0000	0.0955	0.0010		
CaO												5.1888	0.05189		258.1358	2.5814	5.1369	0.05189		4954.1218	255.5545	260.6914		26.0691	25.5478	0.5214	0.2607	0.0026	25.8084	0.2581		
MgO												0.0224	0.00022		1.1142	0.0111	0.0222	0.00022		21.3842	1.1031	1.1253		0.1125	0.1103	0.0023	0.0011	0.0000	0.1114	0.0011		
CO ₂												4122.1546	4122.1546							4122.1546												
Ca(OH) ₂																									310.0365	303.8358	6.2007	3.1004	0.0310	306.9362	3.0694	
Mg(OH) ₂																									1.4685	1.4391	0.0294	0.0147	0.0001	1.4538	0.0145	
Udara																									242.4939	237.6440	4.8499	242.4939	0.0000			
H ₂ O	99.5265	49.4980	94.0799	4.9516	99.5265	0.4950	0.2803	0.0990	49.0030	0.6763	94.0799	94.0799	94.0799	15.0636						90.3275	18.8160											
TOTAL	10155.7632	150.0603	94.2719	507.7131	10155.7632	1.5006	0.2803	0.0990	148.5597	1.6819	9646.5495	4221.6377	4216.28859	15.0636	268.8006	2.6880	5.3491	90.3816	4140.9706	5158.7992	266.1126	271.4617	91.0440	150.1414	7.5071	127.8080	14.8263	14.8263	344.2061	3.4386		

KETERANGAN

	PW	PROCESS WATER		LAJU ALIR (KG/JAM)
	CW	COOLING WATER		TEMPERATURE (°C)
	CWR	COOLING WATER RETURN		TEKANAN (ATM)
	WTP	WASTE TREATMENT PROCESS		STEAM

No	Nama Alat	Kode Alat
1	GUDANG LIMESTONE	F-110
2	SCREW CONVEYOR - 1	J-111
3	HOPPER - 1	F-112
4	POMPA - 1	L-221
5	BLOWER - 1	G-213
6	BURNER - 1	Q-212
7	FLUOSOLID DRYER	B-210
8	CYCLONE - 1	H-215
9	SCRUBBER - 1	D-216
10	VIBRATING SCREEN	H-217
11	SCREW CONVEYOR - 2	J-218
12	BUCKET ELEVATOR - 1	J-221
13	HOPPER - 2	F-222
14	POMPA - 2	L-223
15	BLOWER - 3	G-225
16	BURNER - 2	Q-224
17	FLUIDIZED BED KILN	B-220
18	COOLING CONVEYOR - 1	E-231
19	BUCKET ELEVATOR - 2	J-232
20	HOPPER - 3	F-233
21	BALL MILL - 1	C-234
22	HOPPER - 4	F-235
23	CYCLONE - 2	H-227
24	SCRUBBER - 2	D-228
25	CYCLONE - 3	H-229
26	COOLING CONVEYOR - 2	E-236
27	BUCKET ELEVATOR - 3	J-311
28	HOPPER - 5	E-312
29	HYDRATOR	R-310
30	HOPPER - 6	F-313
31	ROTARY VACCUM FILTER	B-314
32	SCREW CONVEYOR-2	J-315
33	BLOWER - 5	G-321
34	MOLECULAR SIEVE	D-322
35	HEATER	E-323
36	ROTARY DRYER	B-320
37	CYCLONE - 4	H-324
38	BALL MILL - 2	C-325
39	HOPPER - 7	F-326

Digambar Oleh

DIRGA TIRTA SAMPELAWANG 18031010210

DOSEN PEMBIMBING
DR. IR. NOVEL KARAMAN, MT Ttd,

FLOWSHEET PRA RENCANA PABRIK LIME & SLAKED LIME
DARI LIMESTONE DENGAN PROSES KALSINASI



PROGRAM STUDI TEKNIK KIMIA
FAKULTAS TEKNIK
UNIVERSITAS PEMBANGUNAN NASIONAL "VETERAN" JAWA TIMUR
2023