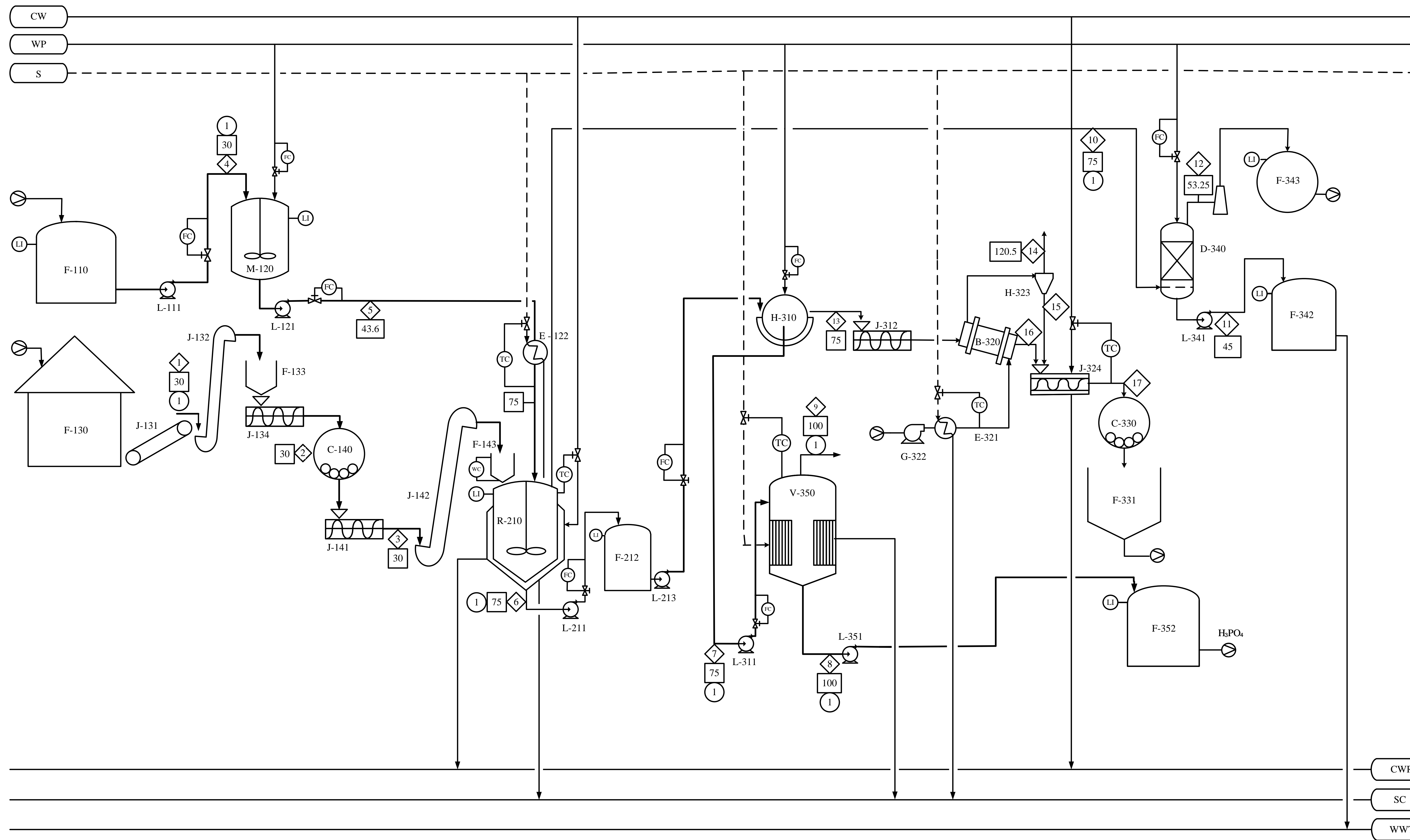


FLWSHEET PABRIK ASAM PHOSPATE DARI BATUAN PHOSPATE DAN ASAM SULFAT DENGAN PROSES WET



CW	Cooling Water	◇	Aliran Massa (Kg/Jam)
WP	Water Process	□	Temperatur (°C)
S	Steam	○	Tekanan (atm)
CWR	Cooling Water Return		
SC	Steam Condensate		
WWT	Wash Water Treatment		

35.	F-352	TANGKI ASAM PHOSPAT
34.	L-351	POMPA
33.	V-350	EVAPORATOR
32.	F-343	TANGKI KARBON DIOKSIDA
31.	F-342	TANGKI ASAM FLORIDA
30.	L-341	POMPA
29.	D-340	SCRUBBER
28.	F-331	SILO GYPSUM
27.	C-330	BALL MILL
26.	J-324	COOLING CONVEYOR
25.	H-323	CYCLONE
24.	G-322	BLOWER
23.	E-321	HEATER
22.	B-320	ROTARY DRYER
21.	J-312	SCREW CONVEYOR
20.	L-311	POMPA
19.	H-310	ROTARY DRUM VACUM FILTER
18.	L-213	POMPA
17.	F-212	TANGKI SLURRY
16.	L-211	POMPA
15.	R-210	REAKTOR
14.	F-143	SILO
13.	J-142	BUCKET ELEVATOR
12.	J-141	SCREW CONVEYOR
11.	C-140	BALL MILL
10.	J-134	SCREW CONVEYOR
9.	F-133	SILO
8.	J-132	BUCKET ELEVATOR
7.	J-131	BELT CONVEYOR
6.	F-130	GUDANG BATUAN PHOSPAT
5.	E-122	HEATER
4.	L-121	POMPA
3.	M-120	TANGKI PENGENCER ASAM SULFAT
2.	L-111	POMPA
1.	F-110	TANGKI ASAM SULFAT
NO	KODE	NAMA ALAT

Komponen	Aliran Massa (Kg/Jam)																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Ca ₃ (PO ₄) ₂	28788,3874	1439,4194	27348,9680			1367,4484							1367,4484	0,1367	13,5377	1353,7739	1367,3117
CaF ₂	1983,1215	99,1561	1883,9654			94,1983							94,1983	0,0094	0,9326	93,2563	94,1889
CaCO ₃	8630,3328	431,5166	8198,8161			409,9408							409,9408	0,0410	4,0584	405,8414	409,8998
H ₂ O	1766,7007	88,3350	1678,3656	741,6847	11875,5226	2272,1418	2226,6989	1058,2924	1168,4065	33407,8293	33407,8293		45,4428	12,7964	0,1293	32,5172	32,6564
Impuritis	2998,9744	149,9487	2849,0257			2849,0257							2849,0257	0,2849	28,2054	2820,5354	2848,7408
H ₂ SO ₄				36342,5518	36342,5518	1817,1276	1780,7850	1780,7850					36,3426			36,3426	36,3426
H ₃ PO ₄						16416,4341	16088,1054	16088,1054					328,3287			328,3287	328,3287
CaSO ₄ ·2H ₂ O						60606,0592							60606,0592	6,0606	600,0000	59999,9986	60599,9985
HF										917,3474	908,1739	9,1735					
CO ₂										3427,4922		3427,4922					
Total	44167,5167	2208,3758	41959,1409	37084,2365	48218,0743	85832,3757	20095,5894	18927,1828	1168,4065	37752,6688	34316,0032	3436,6656	65736,7864	19,3290	646,8633	65070,5940	65717,4573

Design oleh : Diny Angelia
 NPM : 18031010176
 Dosen Pembimbing : Ir. Dwi Hery Astuti, MT

FLWSHEET PABRIK ASAM PHOSPAT DARI BATUAN PHOSPAT DAN ASAM SULFAT DENGAN PROSES WET

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