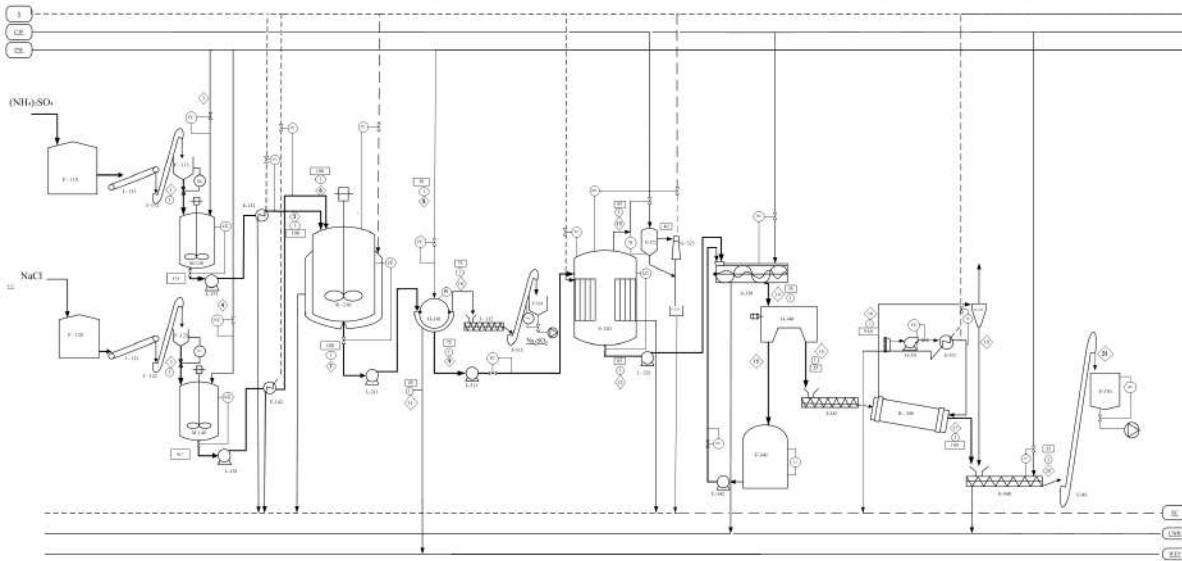


FLOWSHEET PABRIK AMMONIUM CHLORIDE DARI AMMONIUM SULFATE DAN SODIUM CHLORIDE



KETERANGAN:

	Temperature / °C
	Altitude / Kg/jam
	Takanan / atm
	Steam / 100°C - 45 atm
	Steam Condenser
	Cooling Water
	Cooling Water Return
	Process Water
	Waste Treatment Process

20	E-201	SILO AMMONIUM CHLORIDE
17	E-201	BUCKET ELEVATOR 4
W	E-204	COROLING CONVEYOR
15	E-205	CYCLONE
14	E-202	HEATER
13	G-201	RELOVER
12	R-200	ROTARY DRYER
11	E-203	SCREW CONVEYOR 1
10	E-202	POMPA 2
9	F-240	TANGKI PENYIMPUN MEDIUM LIQUOR
8	B-200	CENTRIFUG
7	S-200	CROSS FILTER
6	F-202	ROOF WALK
5	G-202	STEAM HEAT EXCHANGER
4	E-202	BAROMETRIC CONDENSER
3	E-201	POMPA 1
2	V-200	EVAPORATOR
1	F-201	SILO AMMONIUM SULFAT
20	E-201	BUCKET ELEVATOR 3
19	E-201	SCREW CONVEYOR 3
18	E-201	POMPA 3
17	R-200	ROTARY DRYER VACUUM FILTER
16	E-201	POMPA 4
15	R-200	REACTOR
14	E-202	PRE HEATER 2
13	E-201	POMPA 5
12	M-200	TANGKI PELARUTAN 1
11	E-202	PRE HEATER 1
10	E-201	POMPA 6
9	M-200	TANGKI PELARUTAN 2
8	E-202	ROPPER 2
7	E-201	BUCKET ELEVATOR 1
6	E-201	BUCKET CONVEYOR 2
5	F-201	STORAGE SIKLON AMMONIUM CHLORIDE
4	F-202	ROPPER 1
3	E-202	BUCKET ELEVATOR 2
2	E-201	BUCKET CONVEYOR 1
1	E-201	STORAGE AMMONIUM SULFAT
MD	KCHRE	NAMA ALAT

DISAMBAIR : (01) 861.79000
 NPM : 151010008
 DOSEN PEMBIMBING : Dr. Bambang W. Riyanto, MS

FLOW SHEET
PRA RENCANA PABRIK AMMONIUM CHLORIDA DARI AMMONIUM SULFAT DAN SODIUM CHLORIDE
 JURUSAN TEKNIK KIMIA
 FAKULTAS TEKNIK
 UNIVERSITAS PEMBANGUNAN NASIONAL
 "SITELAS"
 JAWA TIMUR
 2019

Komponen	Aliran massa (kg/jam)																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
(NH ₄) ₂ SO ₄	4676,7325			6676,7325		333,8376		4622,5420		33,3638	368,4739		300,4339	285,4332	15,0327	14,8725	0,1592	0,1487	15,0312	
H ₂ O	43,1841			43,1841		45,1841		45,1841		45,1841	661,8692		580,2264	221,16,4100	380,2264	391,2178	29,0113	0,8317	26,3997	0,8317
NaCl	22,2228	204,4909		8162,2897	17913,8219	22976,1182	4021,2093	22898,4493	691,2609	6618,0692										
CaSO ₄		41,7174		41,7174		41,7174		41,7174		41,7174										
MgCl ₂		19,1145		19,1145		19,1145		19,1145		19,1145										
MgSO ₄		39,1271		39,1271		39,1271		39,1271		39,1271										
Heat (Kcal/D)		30,0200		10,4283		10,4283		10,4283		10,4283										
NH ₄ Cl _{max}				9156,158				4622,5420		913,8158	4622,5420		252,9980	248,3518	12,6490	12,5225	0,1268	0,1252	12,6477	
NH ₄ Cl _{total}				9156,158				4622,5420		913,8158	4622,5420		252,9980	248,3518	12,6490	12,5225	0,1268	0,1252	12,6477	
RD _{total}			9140,6332	15999,3322									4366,9628		4368,5628	4323,8884	41,6956	41,8956	4368,1270	
TOTAL	14884,2277	1818,2639	9140,6332	15999,3322	14884,2272	24425,8361	30316,9038	4021,2093	27884,2035	4818,6895	8018,0941	5776,1775	22116,4166	3778,1775	1336,1847	4438,9928	4378,2532	64,4096	43,6887	4438,1919