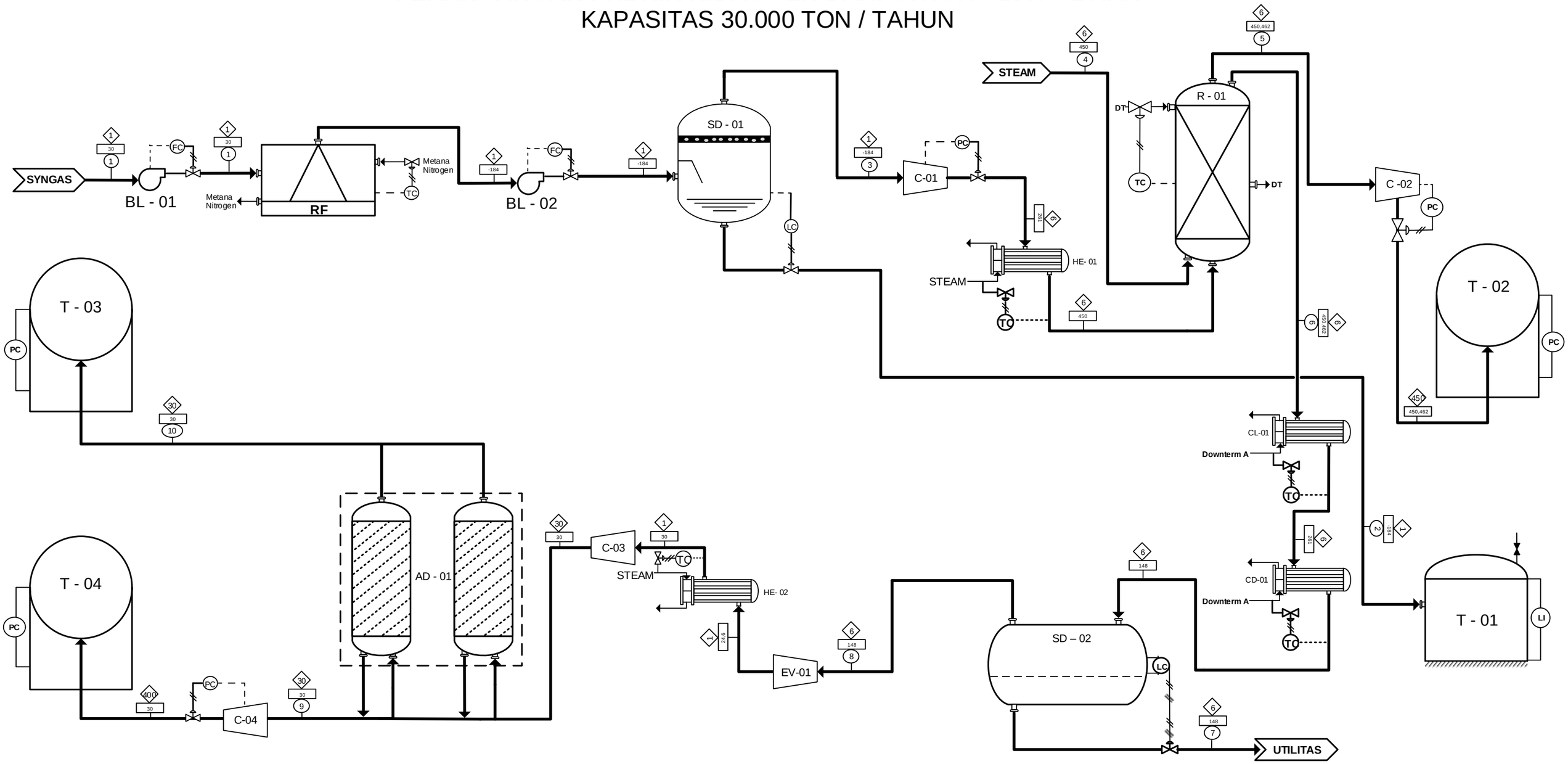
PROCESS ENGINEERING FLOW DIAGRAM

PERANCANGAN PABRIK HIDROGEN DARI SYNGAS BATU BARA

KAPASITAS 30.000 TON / TAHUN



Komponen	Nomor Arus (kg/jam)									
	1	2	3	4	5	6	7	8	9	10
CO	53226,0955	-	53226,0955	-	-	2661,3048	-	2661,3048	354,8406	2306,4641
CO_2	-	-	-	-	-	79458,9569	-	79458,9569	79458,9569	
CH_4	3118,5930	3118,5930	-	-	-	-	-	-	-	
H_2	176,1080	-	176,1080	-	3787,8788	-	-	-	-	
O_2	3732,5480	3732,5480	-	-	-	-	-	-	-	
N_2	681,9255	-	681,9255	-	-	681,9255	-	681,9255	61,4347	620,4908
H_2O	-	-	-	130023,7476	-	97517,8107	97517,8107	-	-	
TOTAL	60935,2700	6851,1410	54084,1290	130023,7476	3787,8788	180319,9979	97517,8107	82802,1872	79875,2322	2926,9549

ALAT	KETERANGAN
CD	Condenser
HE	Heat Exchanger
C	Kompresor
R	Reaktor
EV	Expansion Valve
T	Tangki
AD	Adsorber
BL	Blower
SD	Separator drum
RF	Refrigrant
CL	Cooler

SIMBOL	KETERANGAN
FC	Flow Controller
LI	Level Indikator
PC	Pressure Controller
TC	Temperature Controller
	Nomor Arus
	Suhu, C
	Tekanan, atm
	Control Valve
	Electric Connection
	Piping
	Udara Tekan
	Vent

JURUSAN TEKNIK KIMIA
FAKULTAS TEKNOLOGI INDUSTRI
UNIVERSITAS ISLAM INDONESIA
JOGJAKARTA

PROCESS ENGINEERING FLOW DIAGRAM
PABRIK HIDROGEN DARI SYNGAS BATU BARA
KAPASITAS 30.000 TON/TAHUN

Dikerjakan oleh:
1. VANDY RIVALDY (12 521 096)
2. ALDILAH HERLAMBANG (12 521 137)

Dosen pembimbing:
1. Dr. Ir. Farham HM Saleh, MSIE