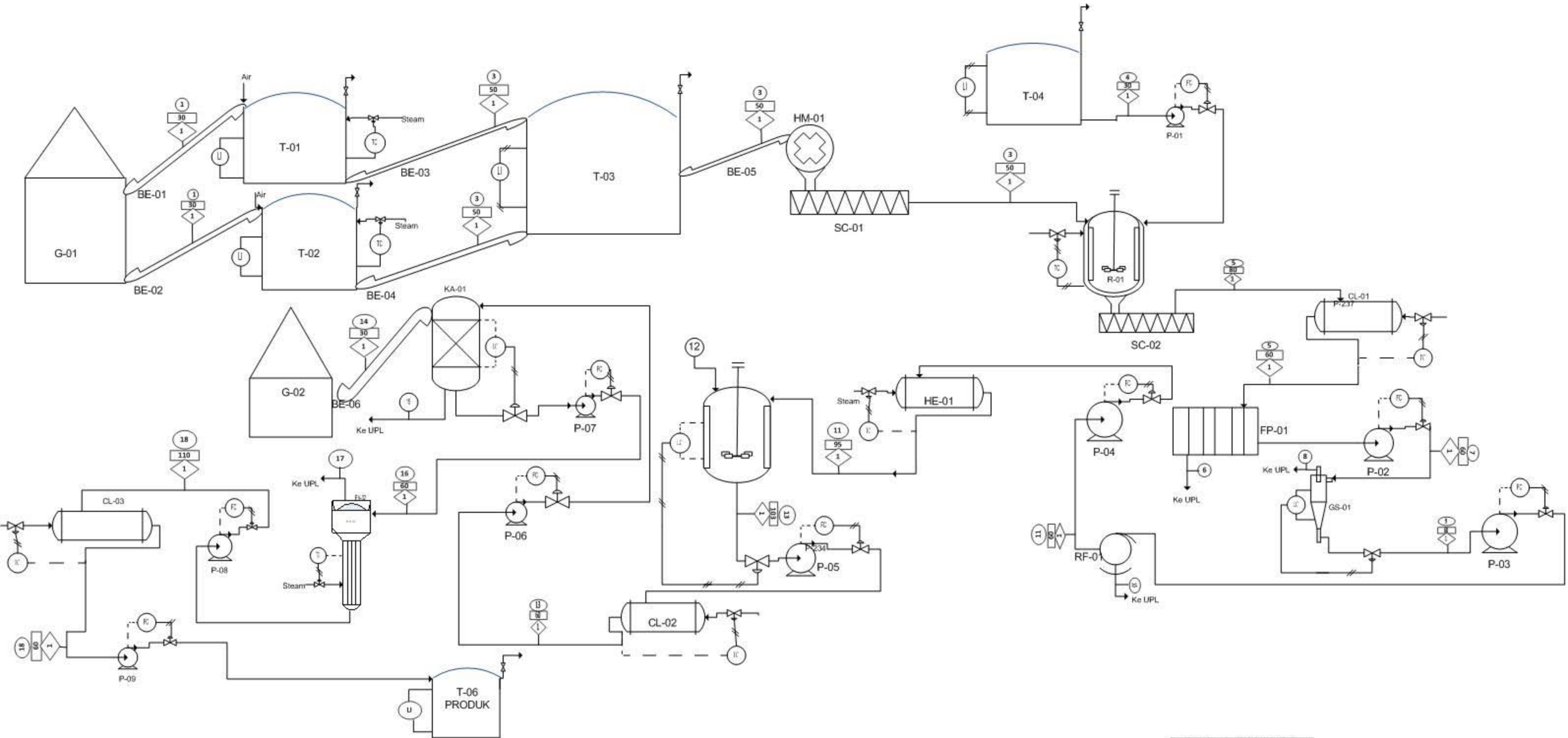


**PROCESS ENGINEERING FLOW DIAGRAM**  
**PABRIK SIRUP GLUKOSA DARI JAGUNG DENGAN PROSES HIDROLISA**  
**KAPASITAS 50.000 TON/TAHUN**



| Komponen     | Nomor Arus (Kg/Jam) |         |          |         |          |          |          |        |          |        |          |        |          |         |         |          |         |         |
|--------------|---------------------|---------|----------|---------|----------|----------|----------|--------|----------|--------|----------|--------|----------|---------|---------|----------|---------|---------|
|              | 1                   | 2       | 3        | 4       | 5        | 6        | 7        | 8      | 9        | 10     | 11       | 12     | 13       | 14      | 15      | 16       | 17      | 18      |
| PROTEIN      | 862.35              | -       | 862.35   | -       | 862.35   | 858.0408 | 4.31     | -      | 4.31     | -      | 4.312    | -      | 4.31     | -       | -       | 4.31     | -       | 4.31    |
| LEMAK        | 418.62              | -       | 418.62   | -       | 418.62   | -        | 418.62   | 416.52 | 2.09     | -      | 2.090    | -      | 2.0931   | -       | -       | 2.0931   | -       | 2.0931  |
| SERAT KASAR  | 184.19              | -       | 184.19   | -       | 184.19   | 184.19   | -        | -      | -        | -      | -        | -      | -        | -       | -       | -        | -       | -       |
| ABU          | 142.33              | -       | 142.33   | -       | 142.33   | -        | 142.33   | -      | 142.33   | 142.33 | -        | -      | -        | -       | -       | -        | -       | -       |
| PATI         | 5885.77             | -       | 5885.77  | -       | 117.71   | 117.13   | 0.5886   | 0.5856 | 0.0029   | -      | 0.0029   | -      | 0.0029   | -       | -       | 0.0029   | -       | 0.0029  |
| AIR          | 879.1               | 4186.18 | 5065.28  | 1582.37 | 6006.76  | 30.03    | 5976.73  | -      | 5976.73  | -      | 5976.73  | 657.45 | 6634.17  | -       | -       | 6634.17  | 5174.65 | 1459.52 |
| HCl          | -                   | -       | -        | 929.33  | 929.33   | -        | 929.33   | -      | 929.33   | -      | 929.33   | -      | 929.3314 | -       | -       | 929.331  | 898.215 | 31.1162 |
| GLUKOSA      | -                   | -       | -        | -       | 6344.85  | 31.72    | 6313.13  | -      | 6313.13  | -      | 6313.13  | -      | 6313.13  | -       | -       | 6313.13  | -       | 6313.13 |
| HMF          | -                   | -       | -        | -       | 64.09    | -        | 64.09    | -      | 64.09    | -      | 64.09    | -      | 64.09    | -       | 64.09   | -        | -       | -       |
| KARBON AKTIF | -                   | -       | -        | -       | -        | -        | -        | -      | -        | -      | -        | -      | -        | 1226.1  | 1226.10 | -        | -       | -       |
| TOTAL        | 8372.36             | 4186.18 | 12558.54 | 2511.70 | 15070.23 | 1221.11  | 13849.13 | 417.11 | 13432.01 | 142.33 | 13289.68 | 657.45 | 13947.13 | 1226.10 | 1290.19 | 13883.04 | 6072.87 | 7810.17 |

| ALAT | KETERANGAN      |
|------|-----------------|
| G    | Gedung          |
| T    | Tangki          |
| HM   | Hammer Mill     |
| BE   | Belt Elevator   |
| SC   | Screw Conveyor  |
| R    | Reaktor         |
| CL   | Cooler          |
| HE   | Heater          |
| FP   | Filter Press    |
| GS   | Grain Separator |
| RF   | Rotary Filter   |
| P    | Pompa           |
| Ev   | Evaporator      |
| KA   | Kolam Adsorpsi  |

| SIMBOL | KETERANGAN             |
|--------|------------------------|
|        | Level Controller       |
|        | Level Indicator        |
|        | Flow Controller        |
|        | Temperature Controller |
|        | Nom of Aris            |
|        | Steam                  |
|        | Tekanan, atm           |
|        | Control Valve          |
|        | Electric Connection    |
|        | Piping                 |
|        | Udara Tekan            |
|        | Vent                   |

**JURUSAN TEKNIK KIMIA**  
**FA KULTAS TEKNOLOGI INDUSTRI**  
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**YOGYAKARTA**

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**PABRIK SIRUP GLUKOSA DARI JAGUNG DENGAN PROSES**  
**HIDROLISA**  
**KAPASITAS 50.000 TON/TAHUN**

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Dikembangkan oleh:

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