

**Variables:**

1. Electricity consumption (kwh)
2.  $\Delta$ Turbidity (NTU)
3. COD of raw water (mg/L)
4. Temperature of raw water ( $^{\circ}$ C)
5. pH of raw water
6.  $\Delta$ NH<sub>4</sub> (mg/L)
7. Residual free chlorine of treated water (mg/L)
8. Lime hydrated (kg)
9. Coagulant – PAC (kg)
10. Active chlorine (kg)
11. Trivial process (yuan)

**Main output:**

Water produced (m<sup>3</sup>)

