1. The wastewater samples taken from sewage systems in Canakkale show the following quality properties. Determine if this wastewater requires any treatment according to the discharge limits set for domestic wastewater in Turkey (See the Turkish regulations). State percent removal efficiencies for each parameter to meet the effluent discharge limits.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Analysis | Effluent discharge limit (Turkish regulations) | % removal efficiency required. |
| BOD5 (mg/L) | 200 |  |  |
| COD (mg/L) | 250 |  |  |
| TSS (mg/L) | 220 |  |  |
| pH | 7 |  |  |

1. The wastewater samples taken from a slaughterhouse in Canakkale exhibit the following chemical quality parameters. Determine if this wastewater requires any treatment according to the discharge limits set for industries dealing with meat processing and packing in Turkey (See the Turkish regulations). State percent removal efficiencies for each parameter to meet the effluent discharge limits.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Analysis | Effluent discharge limit (Turkish regulations) | % removal efficiency required. |
| Oil and grease (mg/L) | 80 |  |  |
| COD (mg/L) | 1000 |  |  |
| TSS (mg/L) | 300 |  |  |
| Color | 450 |  |  |
| pH | 7 |  |  |