ASP wastewater treatment requirement (Daqing oilfield)

Background information:

The Daqing oilfield of China Petroleum Group based in northeast China, is looking for Dutch technology to provide a solution to wastewater treatment. Daqing oilfield explained that their current process for treating wastewater cannot meet the new and strictly enforced environment protection laws. The oilfield has 26 water stations that require a treatment solution. Each water station has a water processing capacity of 8,000-20,000 cubic meter/day.

ASP process & components:

ASP: alkali agent (a), surfactant (s), polymer (P); The synergistic use of the three is alkali surfactant polymer flooding (ASP). Based on the synergistic effect of various displacement agents, to inject underground and it is generally used for tertiary oil recovery.

1. Construction scale:

The solution needs to provide a stable process in treatment of wastewater with the ASP process,

Annual operation time: 8,000 hours

Operating flexibility: 50 ~ 110%

2. Source of ASP wastewater:

2.1 Influent content

Oil content: average 200-2,000 mg/L

SS: average 50-300 mg/L

Polymer: average from 600-800 mg/L

Viscosity of wastewater: 1.5-2.5 mPa.s

Surfactant: 200-500 mg/L

SRB and Sulfur content are quite high

2.2 Effluent requirement

Oil content: average 5 mg/L

SS: average 5 mg/L, the rest of the elements is not required

The Daqing oilfield of China Petroleum Group is looking for Dutch technology that could provide a solution for their ASP wastewater treatment.

Contact:

For interested companies who want to get more detailed specifications of this project, please contact us:

Netherlands Business Support Office Dalian

Mrs. Carolina de Velde, Chief Representative

Mr. Yin Hang, Deputy Representative

nbsodalian@nbsodalian.com

Mobile: +86 138 426 73370

Go4Export Office

Mr. Louis Wang, China Representative

louiswangzi@hotmail.com

Mobile: +86 159 985 55638

Here are some photos of the local united station of ASP process:

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Program manager of
GO EXPORT

NL Netherlands