

Guinea Flour Labour Camps Wastewater Treatment Plants



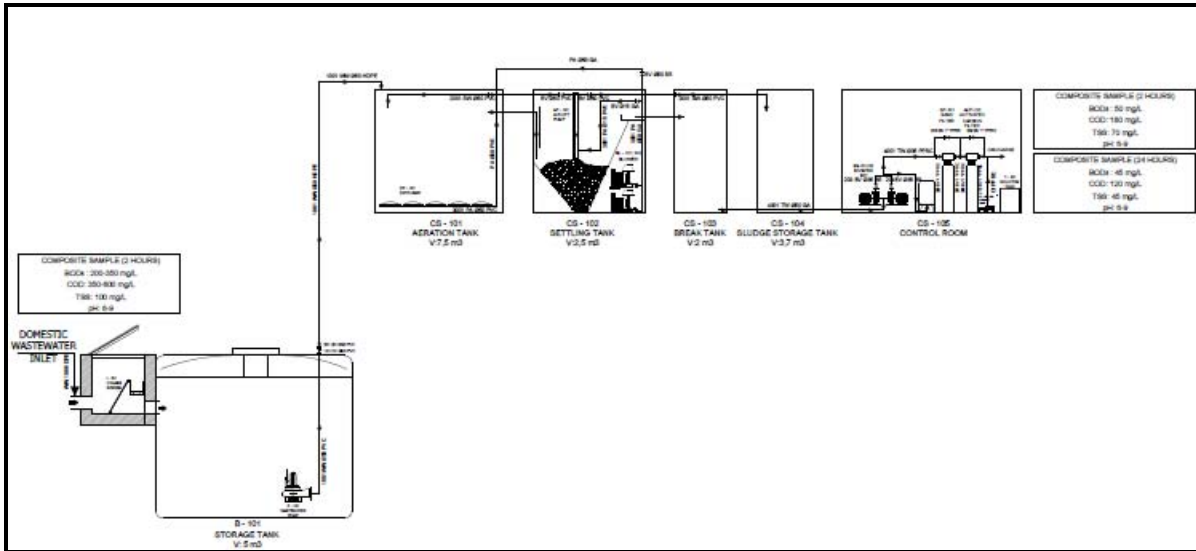
Plant description:

- Ten wastewater treatment plants at labour camps in Guinea.
- Plants are fully covered and isolated for ambient temperature and are environmental friendly.
- Treated water meets discharge requirements.
- Contract involves process design, documenting, engineering, supply, commissioning and operator training.

Client:	Dore A.Ő.
Commissioned:	2013
Capacity:	10 m ³ / (50 PE) each.
Discharge consent:	BOD <50 mg/l, COD <180 mg/l, SS <70 mg/l, Ph:7-8
Brief description:	Fully covered containerised conventional activated sludge wastewater treatment plants.

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Flow Sheet

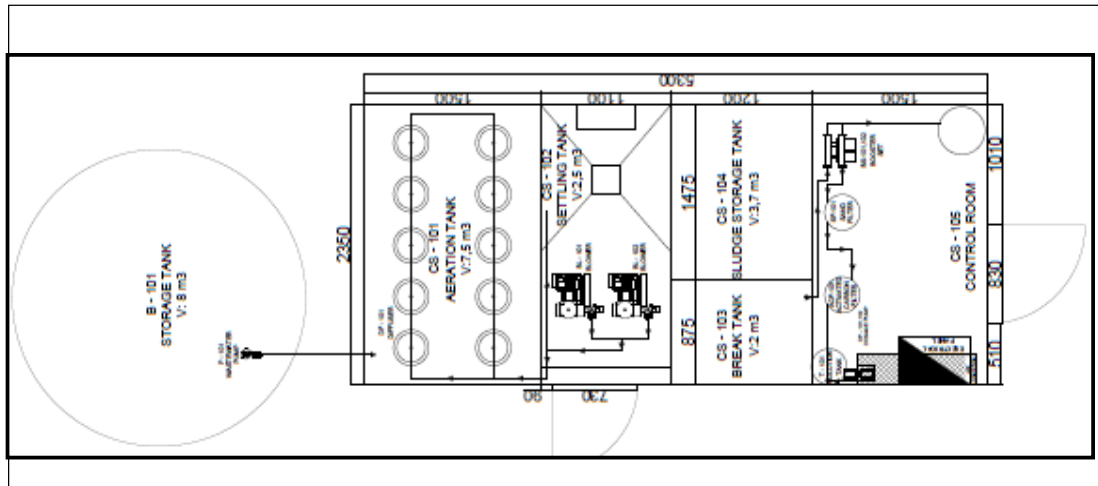
Process Description:

Plants are within containers, fully covered.

Wastewater collected at balance tank are fed to biological treatment then pass to sand and activated carbon filtrations. Treated water is chlorinated for disinfection before discharging to the river.

There is odour control at screening and inlet structures.

Plants are designed for full automatic operation with minimal supervision.



Lay-out

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Design data:

Flow: 10 m³/d

Influent parameters:

BOD	350 mg/l
COD	600 mg/l
Total N	40 mg/l
Total P	5 mg/l
SS	250 mg/l
pH	7-8

Discharge consent :

BOD	50 mg/l
COD	180 mg/l
Total N	10 mg/l
Total P	2 mg/l
SS	70 mg/l
pH	7-8