



**TECNOLOGIA  
A SERVIÇO DA  
VIDA**



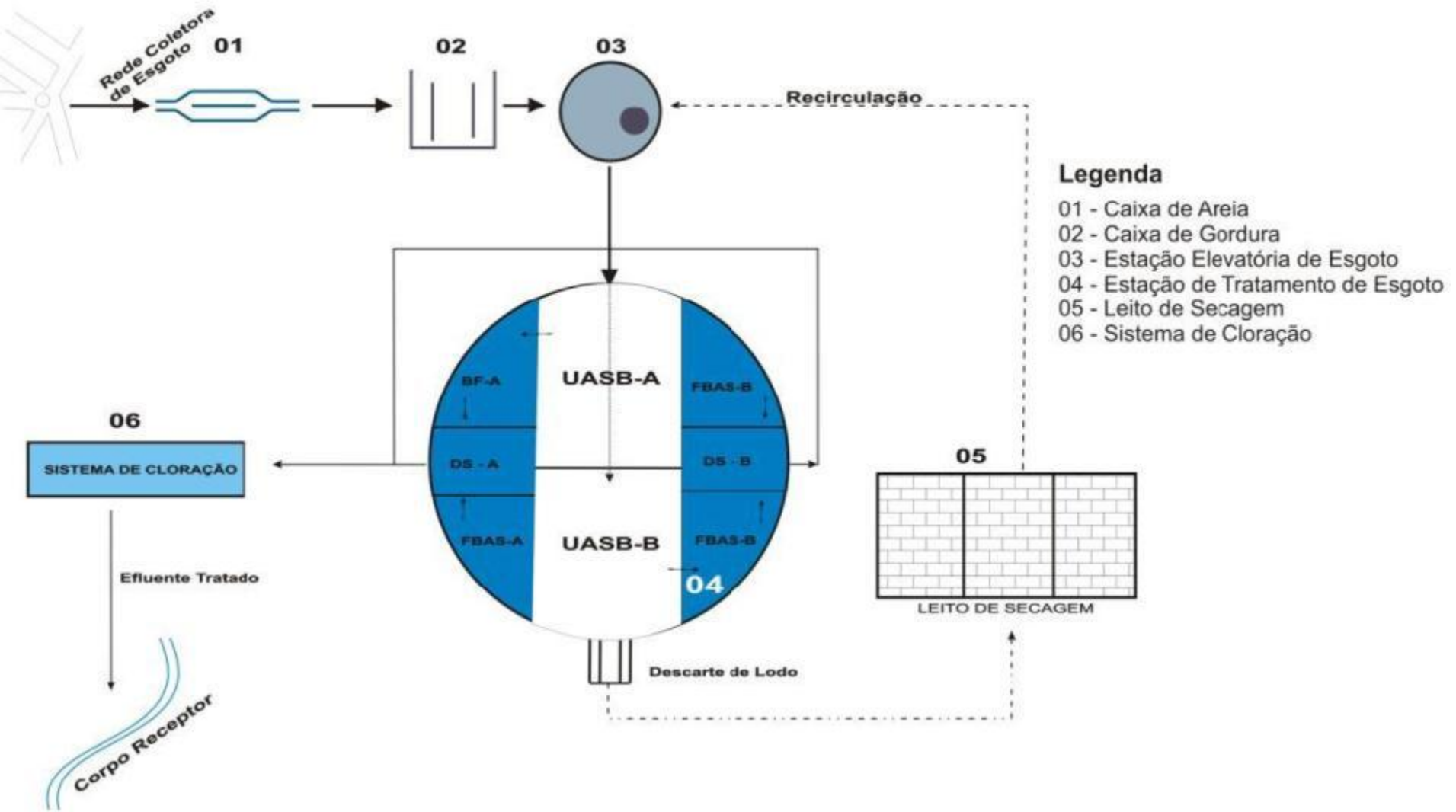
# ETE's COMPACTAS



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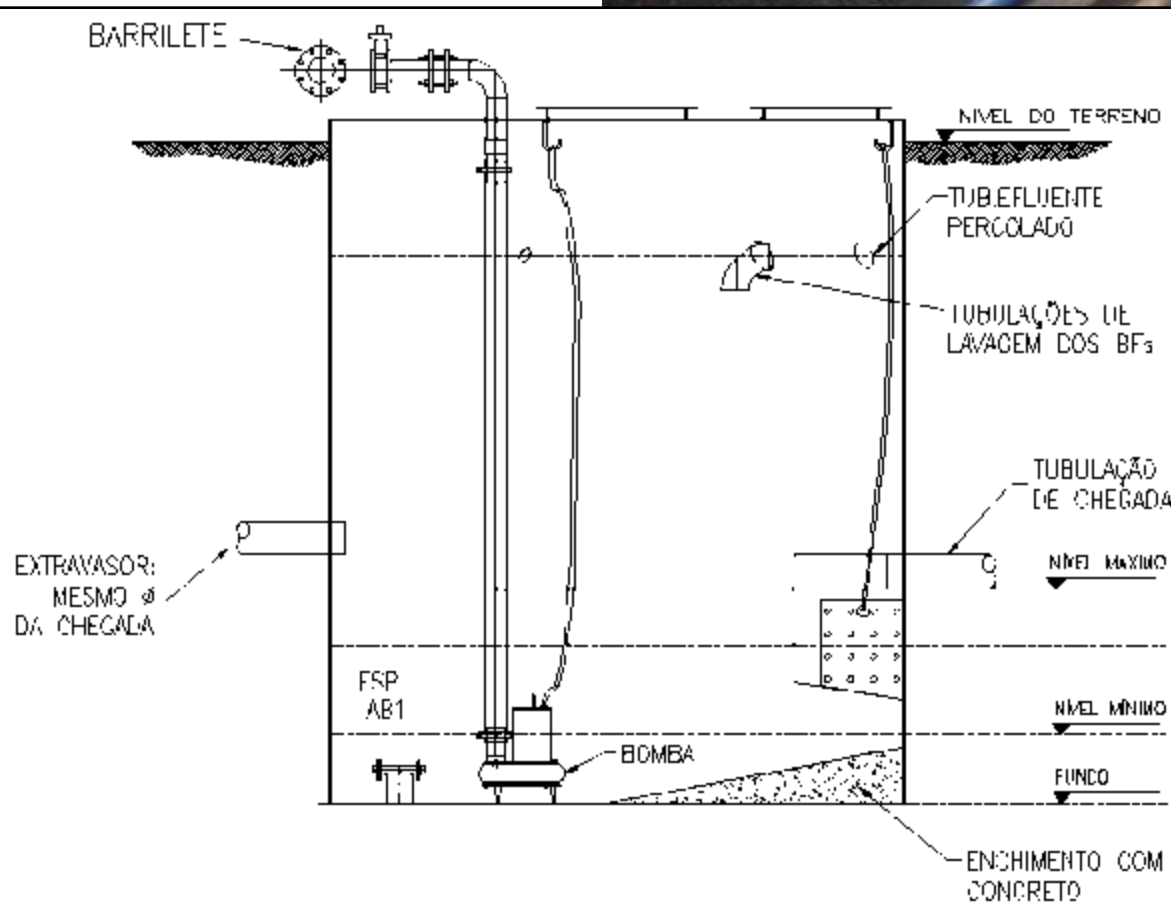
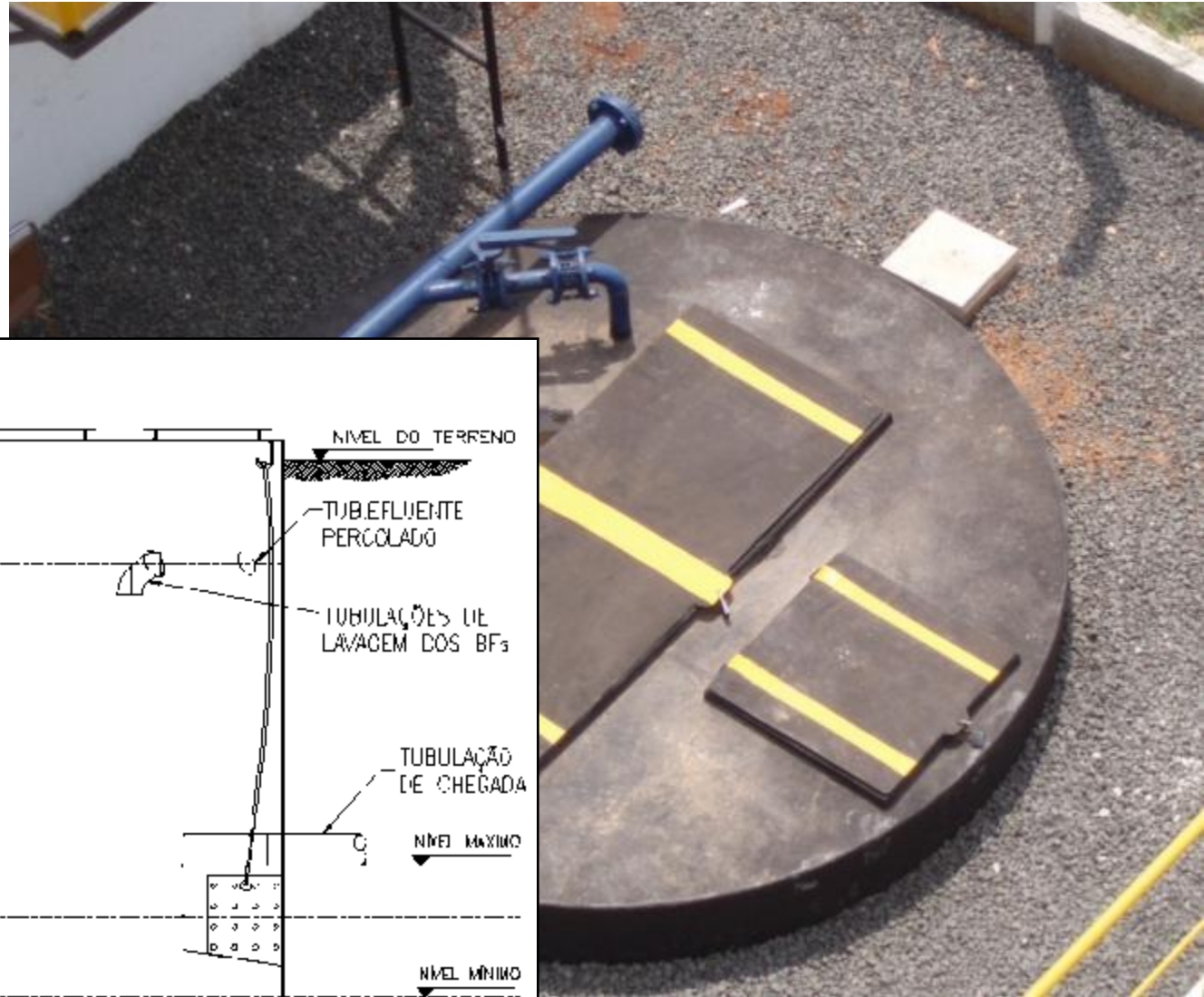
ES	111
RJ	45
MT	32
SP	26
MG	10
GO	7
SC	4
BA	3
PA	3
AM	1
RS	1
<b>TOTAL</b>	<b>243</b>





**Caixa de areia, seguida de caixa de  
gordura.**



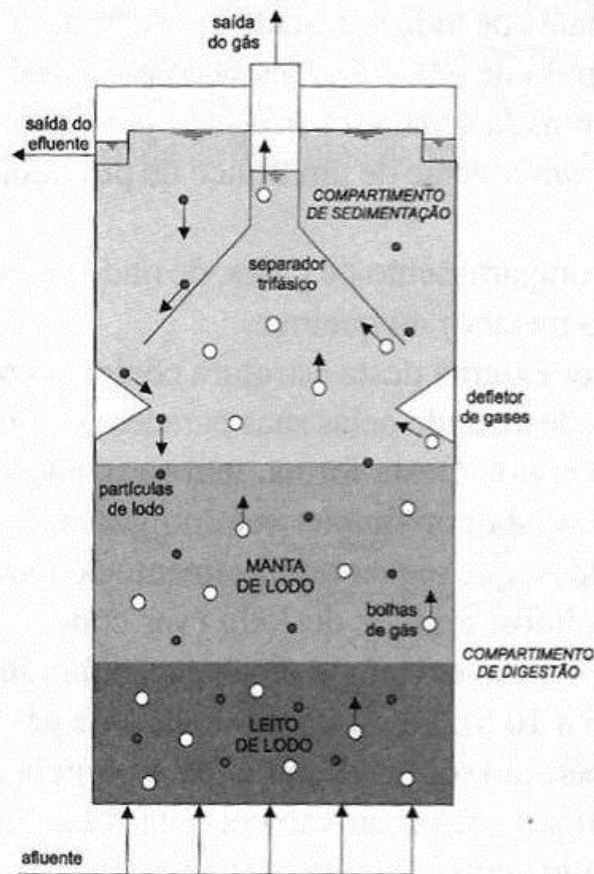


# REATOR UASB

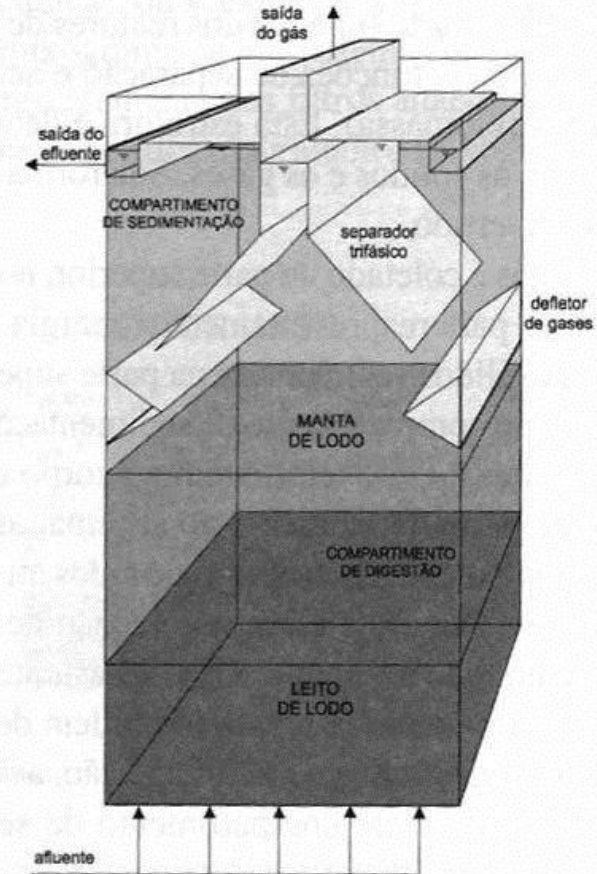
- Tratamento Anaeróbico
  - Degradação biológica de matéria orgânica.

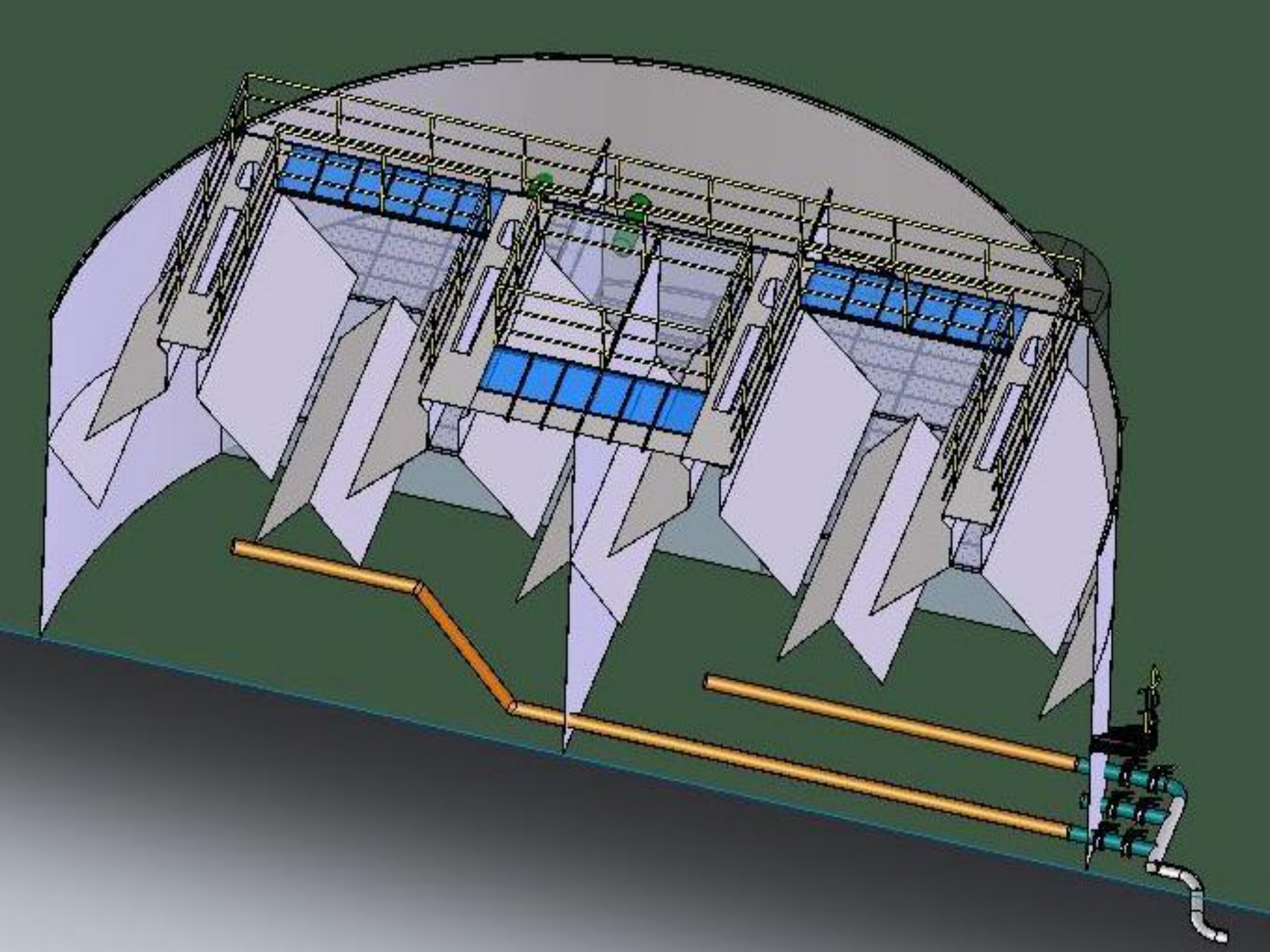


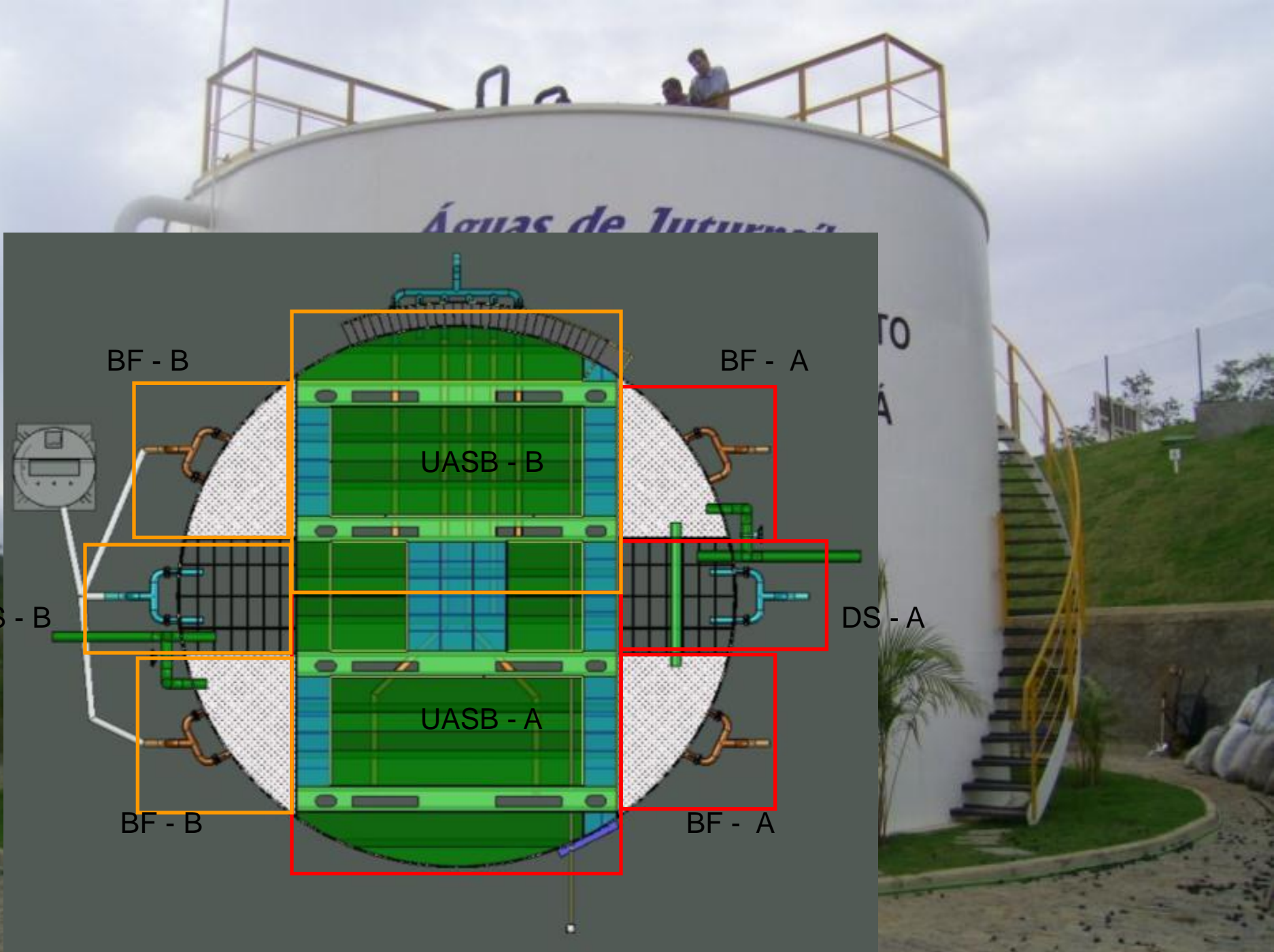
REATOR UASB  
*Princípio de funcionamento*



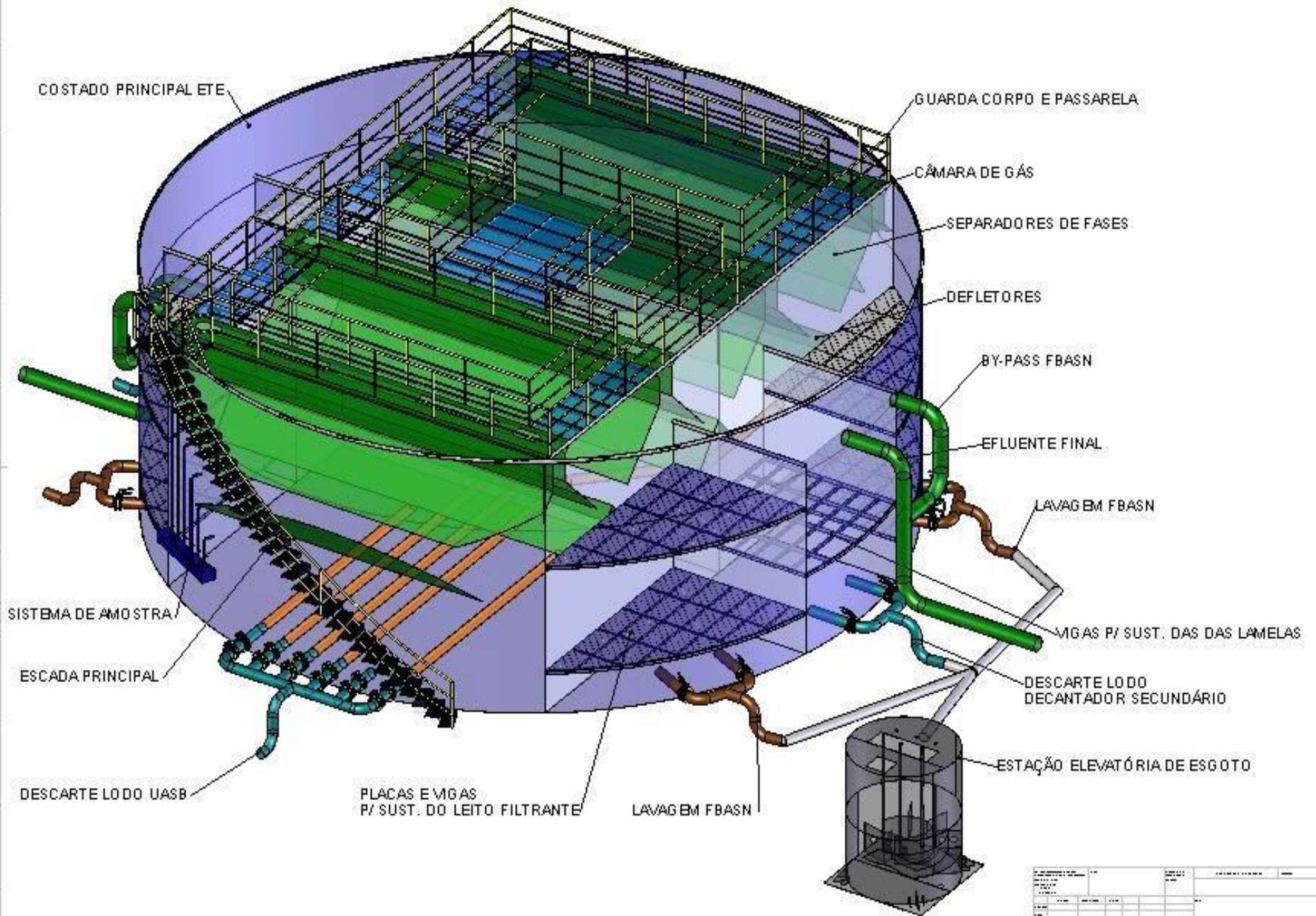
REATOR UASB  
*Vista 3D esquemática*









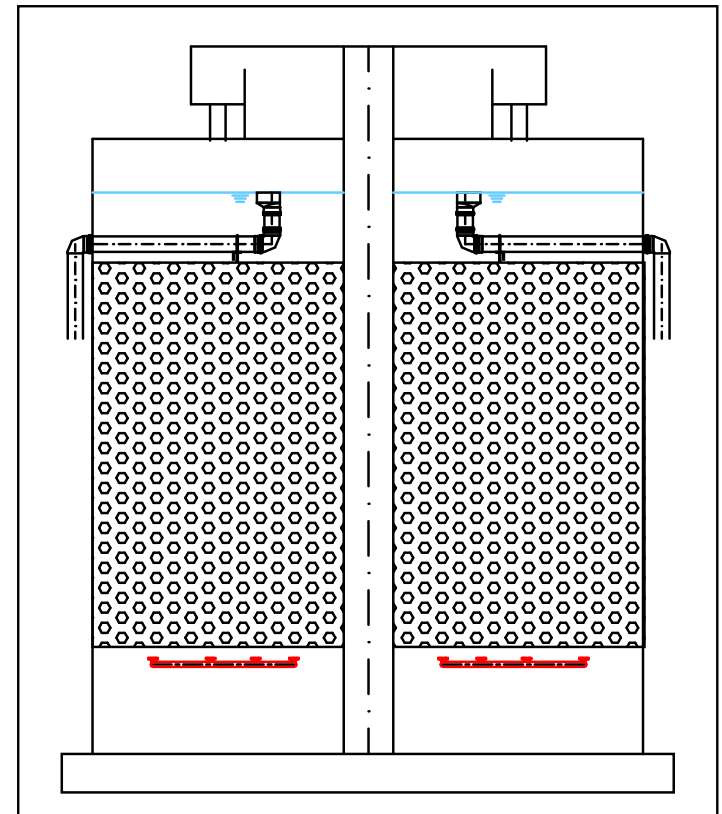


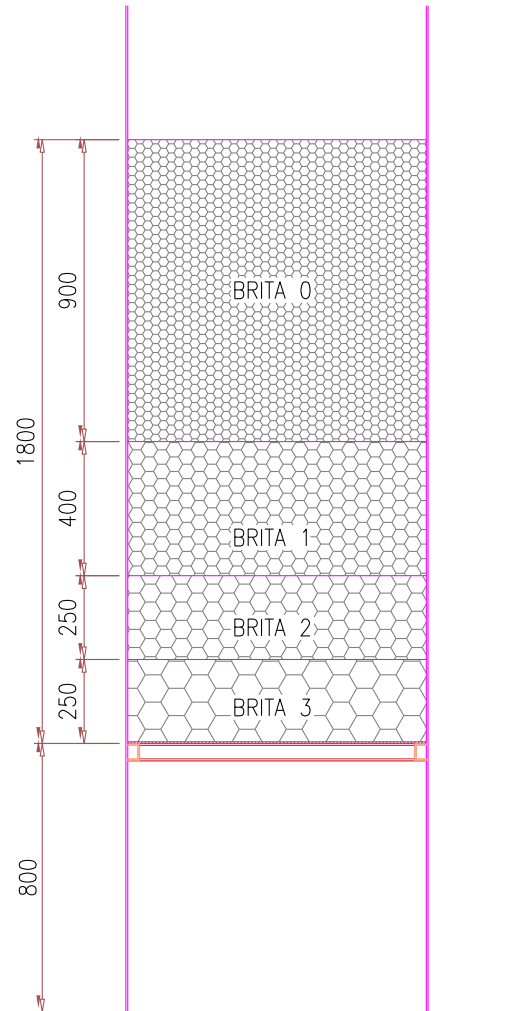
ETE UASB+FBASN+DS Q=55,0 Ls

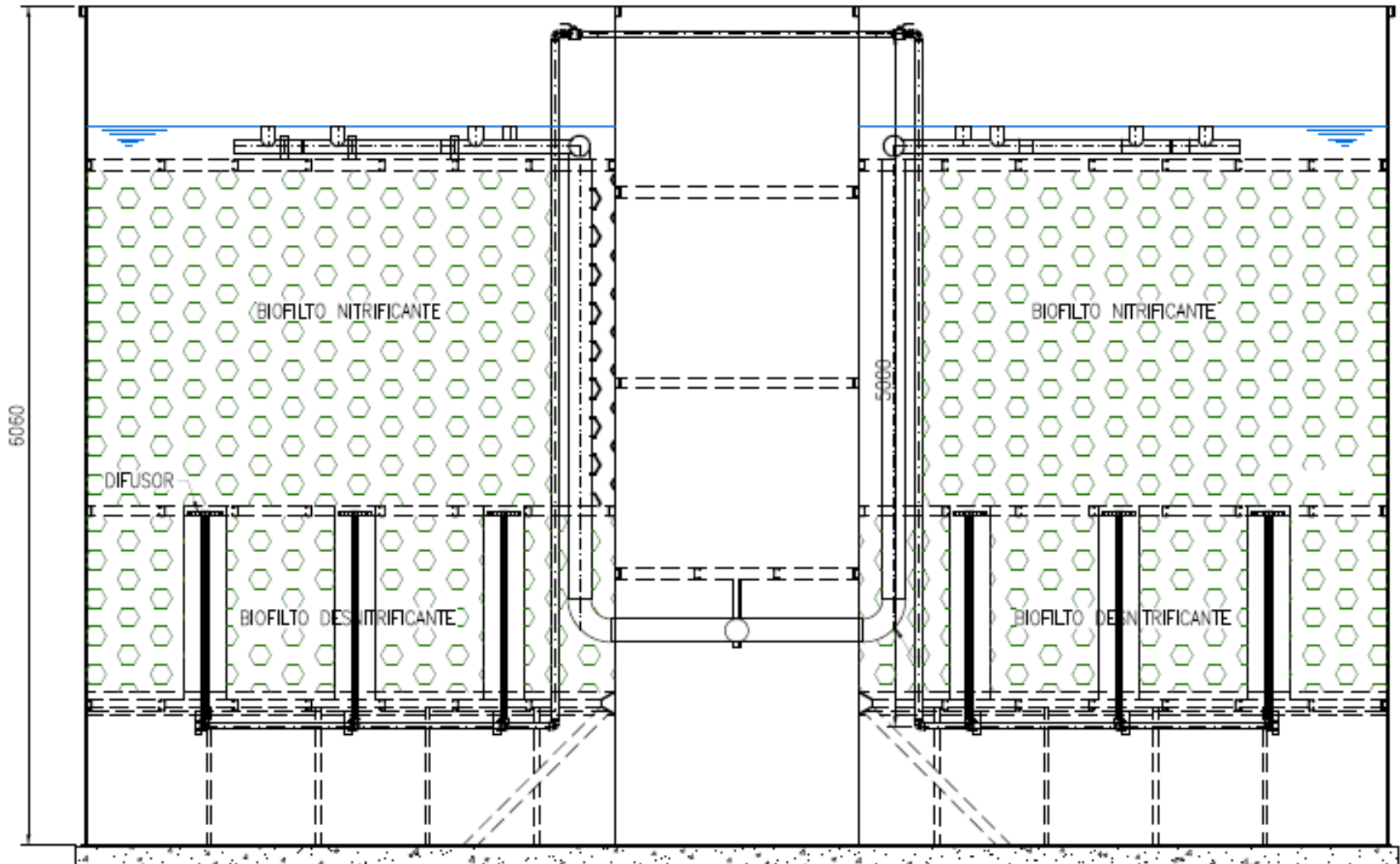
PROJETO	REVISÃO	DATA	ELABORADO	APROVADO

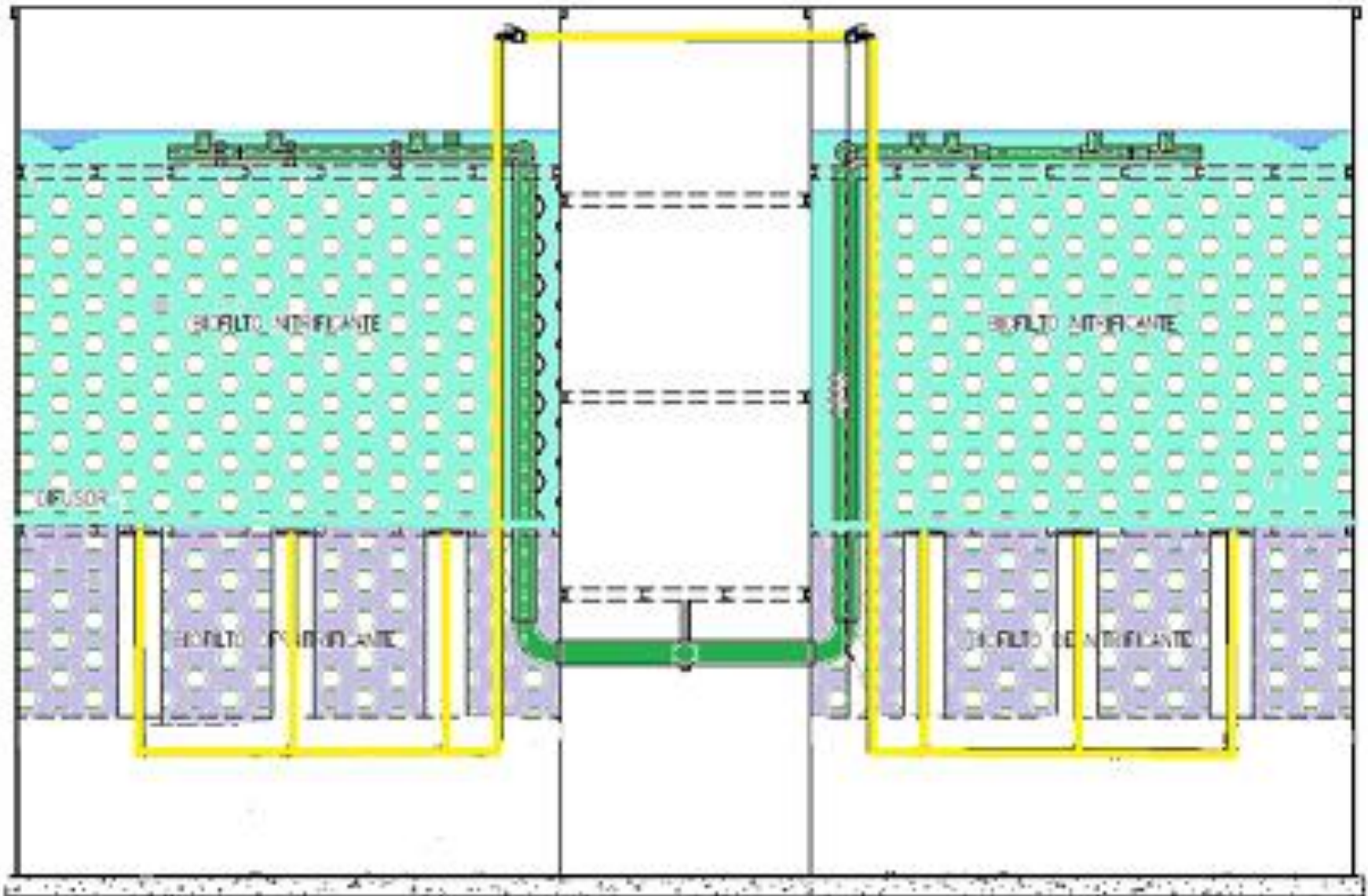
# Tratamento Aeróbio

- Degradação biológica de matéria orgânica (DQO e DBO) e remoção de amônia ( $\text{NH}_4^+$ ) por nitrificação.



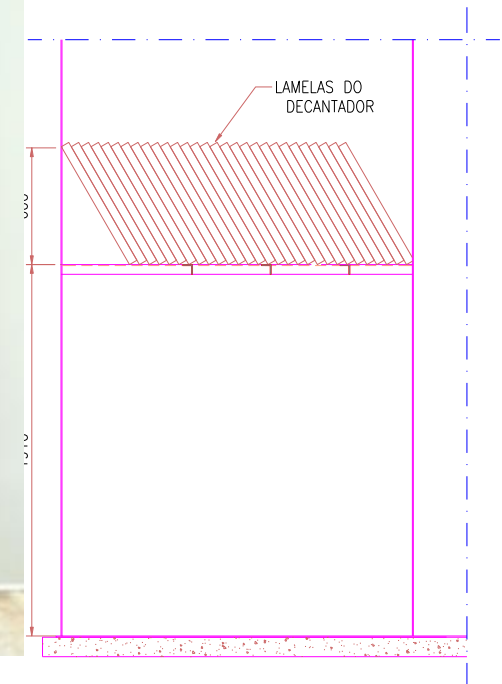




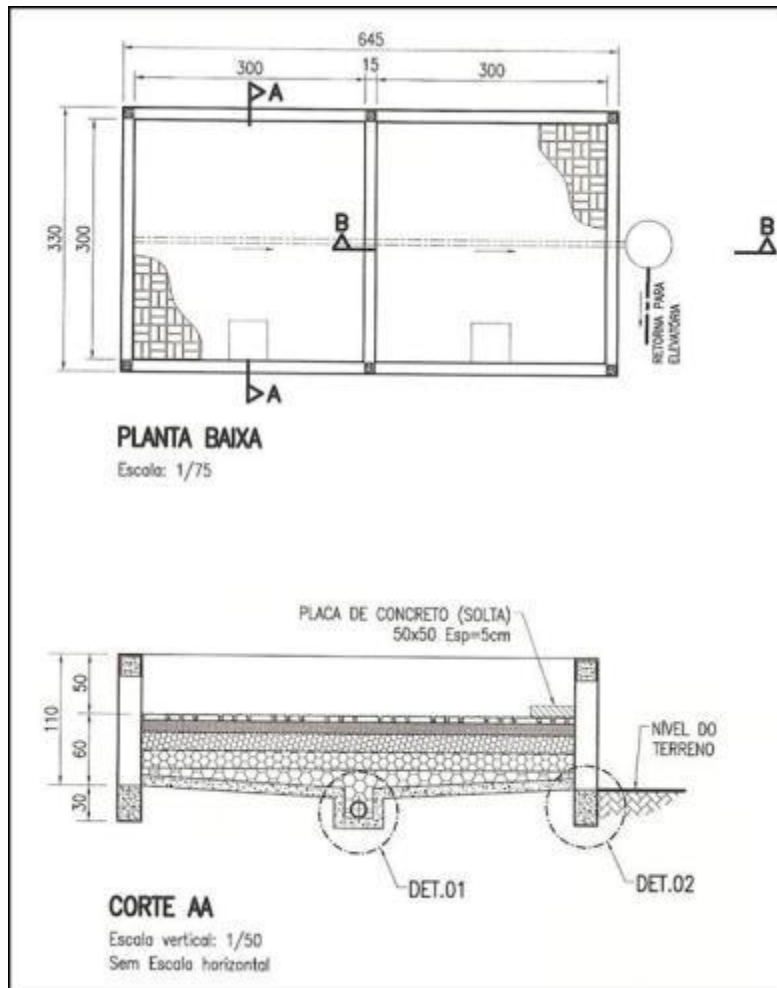


# POLIMENTO

Retenção de partículas de lodo que, por ventura, vierem a se desprender da camada filtrante do biofiltro.



# Sistema de descarte do lodo



Leitos de Secagem









16 8:00











11/04/2012 01:08 PM



**ETE AVISO 140,0 l/s - ES**



# ETE Saquarema - RJ




Águas de Juturnaí  
ESTAÇÃO DE  
TRATAMENTO  
DE ESGOTOS



...as de Juturnaíba  
ESTAÇÃO DE  
TRATAMENTO  
DE ESGOTOS



A large white cylindrical tank is the central focus of the image. It has a yellow metal railing on top and a yellow metal staircase on the right side. The tank is surrounded by a circular concrete base with green grass and several small palm trees. At the bottom of the tank, there are several white pipes and valves. In the background, there is a green hillside and a cloudy sky. Two people are visible on top of the tank.

*Águas de Juturnaíba*  
ESTAÇÃO DE TRATAMENTO  
DE ESGOTO DE BACAXÁ

ETE Bacaxá 35,0 l/s - RJ



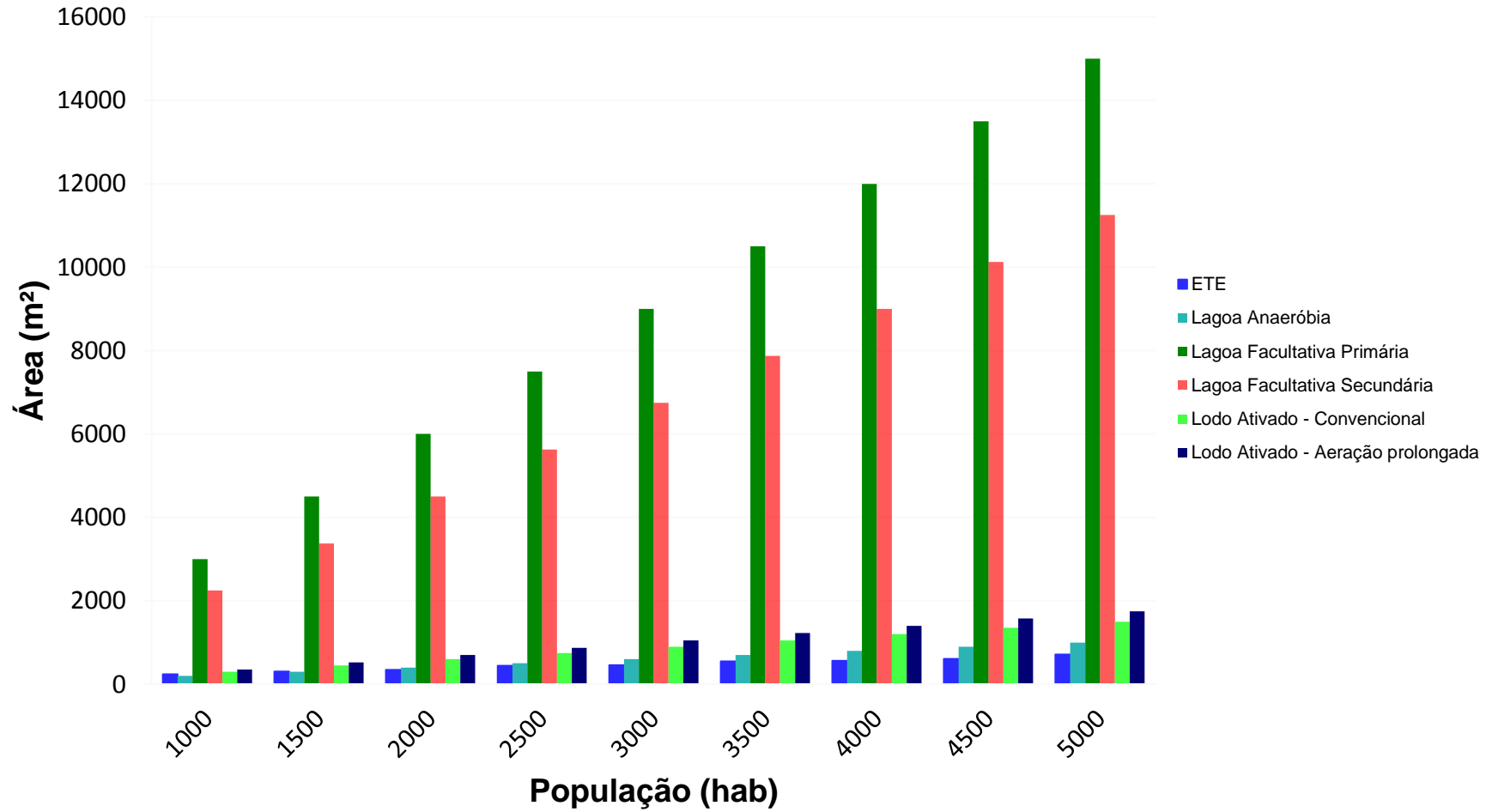


ETE Ulisses Guimarães 2 x 15 l/s

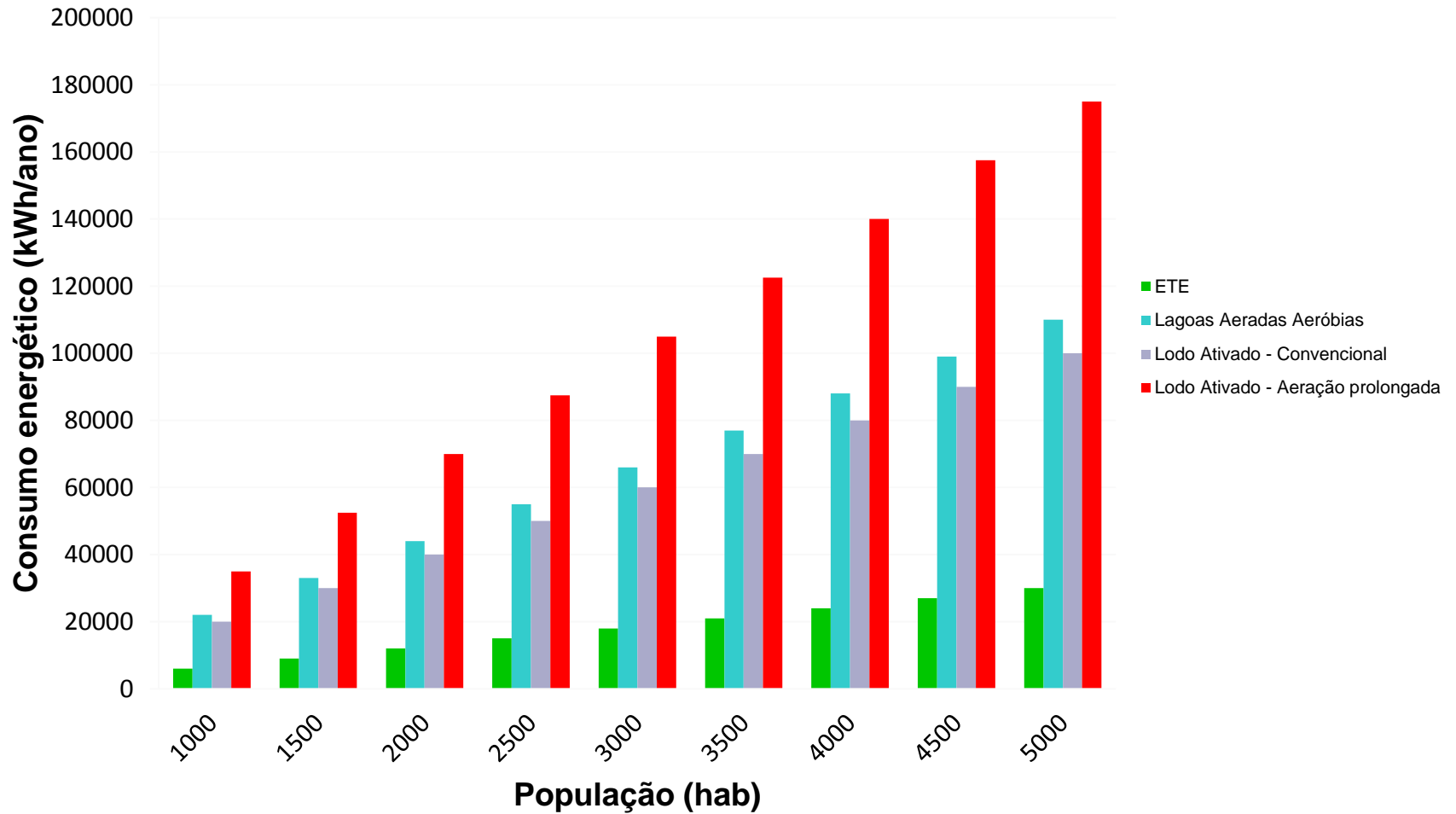


**ETE Ulisses Guimarães 2 x 15,0 l/s - ES**

## COMPARATIVO DE ÁREA



## COMPARATIVO DE CONSUMO ENERGÉTICO







PREFEITURA MUNICIPAL  
DE IMBITUBA

Gestão  
compartilhada

FORTLEV

QuickPanel



Companhia Catarinense  
de Águas e Saneamento

Estação de tratamento de efluentes  
de Paes Leme, Imbituba - SC



Tela Inicial

GE Fanuc

QuickPanel View



GE Fanuc

QuickPanel

07.0 pH Medição de pH FBAS  
Nitrificante / Desnitrificante

21.0 °C Medição de temperatura FBAS  
Nitrificante / Desnitrificante

05.9 mg/l Medição de Concentração de Oxigênio  
Dissolvido FBAS Nitrificante  
/ Desnitrificante

20.8 °C Medição de Temperatura FBAS  
Nitrificante / Desnitrificante

05.6 l/s Medição do fluxo de entrada de efluentes

0000025930 litros Totaliz. entrada estação

14:22

14:22

Indicações

14:22

GE Fanuc

QuickPanel View























100ml FILL LINE

100ml FILL LINE

Colat  
Emtrader

Nasco WHIRL-PAK®

100ml FILL LINE

100ml FILL LINE

Savde

Nasco WHIRL-PAK®



4 OZ FILL LINE

FILL LINE

100ml FILL LINE

100ml FILL LINE

Sarde

WHIRL-PAK

Nasco WHIRL-PAK