

SBR????????????????????????????????SVI?82mg/L????????????????????30%????????????4000mg/L?

1.3 ????

??????1????????????????UASB????????3L??????45mm??1000mm??????150mm????????
????????????????SBR????????15L??????160mm??750mm????????????(HDM-1035)??
????????????????????????????????(????LZB-3WB)????????SBR????????????(20±1)??
??

????????????38~40????????(BL100)????UASB????????????????????????????(BL
100)????????SBR????SBR????24h??????1????????????5min????6h????6h??30min?
??15min????????????????????????????????SBR??3L????0.4?UASB????????????
????????????????(LML/LMF)???????

1.4 ????

????????????(OPA)????????pH????????COD????????????-
????????????(NH3-N)????????SO42-????????(DO)??JPSJ-605DO??????

2??????

2.1 ????????????????

????????????????????????300?600?900?1200mg/L?4????????????????(AMPTS?)??
??2?

??2??205.8mL????????????????300
?600?900?1200mg/L????????????6.5%?9.9%?14.2%?29.7%????????????(Umax)?
?1gVSS(????????)????????????????????300?600?900?1200mg/L????1200min????
????93.5%?90.1%?85.8%?70.3%????RA?75%~95%????RA?40%~75%????RA<40
%????????????????????300~900mg/L????????????????????1200mg/L?????
??????????

2.2 UASB???????

UASB????????80d????3????????(??-?28?)????(??-?53?)????(??-?54?-

80)CODCOD????????(HRT)????4?

2.2.1 UASB????

UASB????1.0kgCOD/(m3d)COD3000~3200mg/LNH3-N8~12mg/L????68~75mg/L????pH????(MPB)pH????pH(6.8~7.2)????Na2CO3pH7.0~7.5????3045mg/LpH????1?-2????CO D????40.3%??3?-?12????0.5kgCOD/(m3d)?? COD????8?-?12COD????72.0%??13?-?28????0.5kgCOD/(m3d)??24?-?28????2.76kgCOD/(m3d)??COD5575mg/L??CO D1322mg/L?COD????70%??UASB????

2.2.2 UASB????

UASB????COD5000~5500mg/L??HRT????COD????70 %????3~4d????0.5~1.0kgCOD/(m3d)??3??4????41?-?47??HRT??24h ?????5.2kgCOD/(m3d)?COD????73.5%??COD?1356mg/L????8.2L/d??48?-?53?? HRT??20.57h????6.3kgCOD/(m3d)??COD????59.9%??COD2233mg/L????5.2 kgCOD/(m3d)?COD????13.6%????SO42-????NH3-N????NH3-N????250mg/L?NH3-N?? 1000mg/L??UASB????5.2kgCOD/(m3d)????NH3-N?? 146?633mg/L????6.3kgCOD/(m3d)????NH3-N????253?755mg/L???? COD????UASB????5.2kgCOD/(m3d)?

2.2.3 UASB????

?UASB????5.2kgCOD/(m3d)?HRT=24h????20d?UASB????1??

??1????COD/SO42-??8????COD/SO42-??2????COD????73.5%?NH3-N????20~30mg/L??612~648 mg/L????NH3-N????NH3-N????0.12~0.2mg/L?? 99.8%?UASB????8.0~8.5L/d?

2.3 SBR????

2.3.1 SBR????

????????????????????????????????????2.0~2.5mg/L????????24h????????5min???12h???30
min???15min????????NH3-N????????5????????????????????pH7.6~7.8?COD283mg/L?N
H3-N121mg/L???5????????18????????NH3-N????????96%???SVI???77mL/g????????????
????????????????????????????20????

2.3.2 COD?NH3-N?????

SBR????????????????????????????????????UASB????????SBR????????SBR????COD?NH3-
N????????????2???

??2????????????????COD?(262±11)mg/L??? (1309±60)mg/L????????COD[????????(96±3)mg/L???
(450±18)mg/L????????????????????????????????????COD????????60%????????????????????????4
1?-?45???COD????5.818kg/(m3d)?NH3-N????0.036kg/(kgMLVSSd)?COD????65%???NH
3-N????95%????????????????COD?NH3-N????????????????????(GB21903-2008)?????????
?

2.4 ??????????????

UASB-SBR????????????????3????14d?COD????91.8%???COD<500mg/L?NH3-N<20
mg/L????????????????

3???

(1)????????????????300~900mg/L????????????????????????????????1200mg/L????????????????

(2)???COD5010~5565mg/L?SO42-610~655mg/L???712~800mg/L????????????103~129mg/L?
????5.2kgCOD/(m3d)?HRT=24h????UASB????????????COD?1250~1348mg/L?SO42-15~20m
g/L?NH3-N600~650mg/L????????????0.12~0.2mg/L?COD????????73.0%????????????8.0~8.5L/d
?

(3)??SBR????????????UASB????????????MLSS?3500~4000mg/L??COD????5.818kg/(m3d)?
NH3-N??0.036kg/(kgMLVSSd)??COD?NH3-N???412~488?12~16mg/L????????????67.0%?97
.4%?