Sewage Treatment Plant (B–1) for Sejong-city

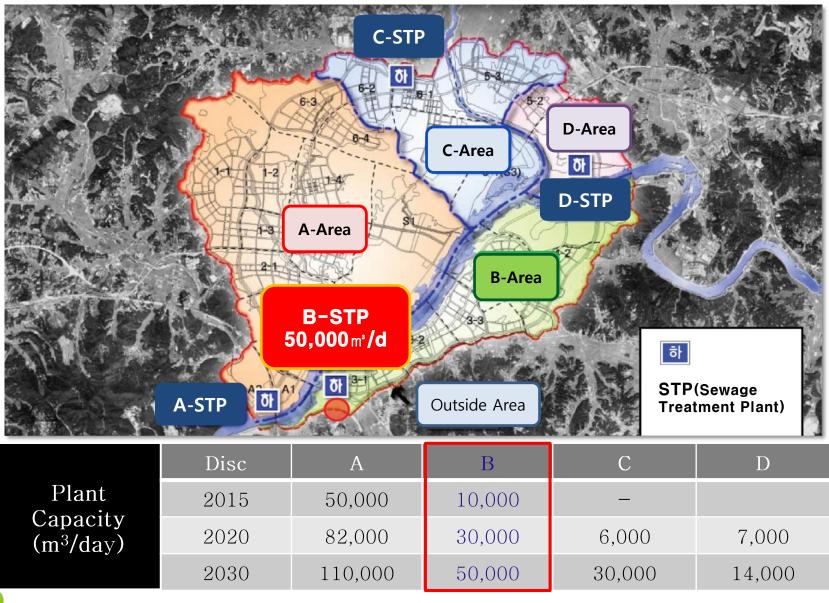


Contents

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1. Sewage Treatment covering area Sewage 1

Sewage Treatment Plant (B-1)



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Sewage Treatment Plant (B-1)



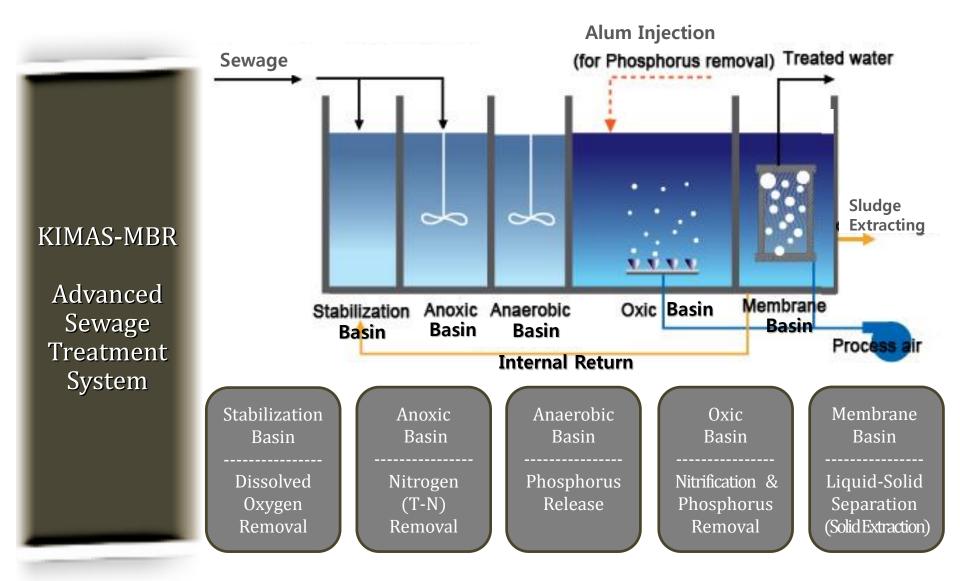
Sewage Treatment Covering Area : 19.06km² (Number of household : About 30,000)

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3. Project Overview

Project Name	Sewage Treatment Plant (B-1) for Sejong-City				
Capacity	30,000 m ³ / day (water treatment area 19.06km ³)				
Contract Amount	35,000,000 USD				
Contractor	Kolon Global Corporation				
Construction Period	June, 1, 2013 ~ October, 31, 2016, Now under commercial operation (July, 2017)				
Process	KIMAS (Biologycal Treatment With Membrane) + IPR (Phosphorus Removal Process) + Ozonization Process				
Public Orderer	Korea Land & Housing Corporation				
Project progress	 May, 2013 Contract December, 2014 Civil work completion June, 2015 Mechanical completion January, 2016 Test run & Commissioning (30,000 ton/day) July, 2017 Under commercial Operation 				
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4. KIMAS-MBR(Membrane) Process Sewage Treatment Plant (B-1)



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First Step Second Step Third Step Low concentration odor Plasma Sulfuric acid(H₂SO₄) & Sodium hydroxide(NaOH) Spray High concentration odor Sodium Hypochlorite **BIO FILTER** (NaOCl) Scrubbing

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KOLON GLOBAL CORP.

Sewage Treatment Plant (B-1)

5. Deodorizing Process

6. Guarantee & Treated Water quality Sewage Treatment Plant (B-1)

Water Quality Control

(Unit:mg/l)

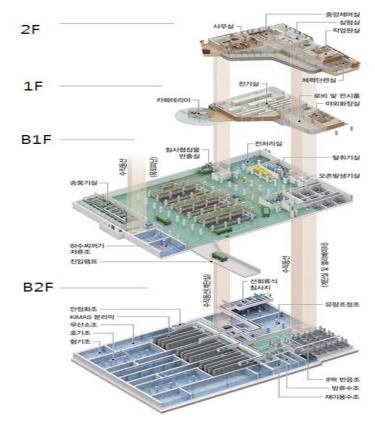
Item	Inlet Sewage	Guarantee (Legal Limit)	Current Treated Water	Removal Efficiency (%)
BOD(mg/L)	208	Less than 3	0.7	99.6
COD(mg/L)	74.0	Less than 15	6.0	91.8
SS(mg/L)	134.0	Less than 3	0.2	99.8
T-N(mg/L)	45.0	Less than 10	2.65	94.1
T-P(mg/L)	5.35	Less than 0.2	0.1	98.1



7. Landscpae Planning

Sewage Treatment Plant (B-1)





The Sewage Treatment Plant is constructed completely underground to Prevent noise and odor troubles.



