

DETAILS OF EXISTING STP's			
ULB Name	No. of wet wells & location	No. of STP & Location	Details of STP
H D KOTE	There is no UGD system in H.D.Kote Town		
HUNSUR	3 Nos 1) Near lakshman theertha bridge. 2)Dhavani beedi. 3)Shabir nagara	1 no 8 MLD STP at Kalkunike in the existing STP primises. Sy no: 49, Extent: 2 Acre	Installed capacity 8.00 MLD 1)8 MLD SBR STP
K R NAGARA	5 Nos 1) Wetwell at Madhuvinahalli STP premises.Sy No: 4, 5, 6, 19/4, 19/5, 19/6, 19/7, Extent: 8 Acre 2) Wet well Bammimantapa Sy No: 23 , Extent: 10 Guntas 3) wetwell at Kalenahalli Sy No: 21/1, Extent: 10 Guntas. 4) Wetwell at Kanaka nagar Sy No: 53/3, Extent:10 Guntas. 5) Wetwell at Srirama Block, Sy No.96/5 Extent: 10 guntas	5 nos 1) Kantenahalli - 1.45 MLD 2) Madhuvinahalli - 2.5 MLD 3) Madhuvinahalli - 1.44 MLD 4) Kantenahalli - 0.25 MLD 5) Kalenahalli road - 0.15 MLD	Installed capacity 5.79 MLD 1) Kantenahalli - 1.45 MLD - WSP 2) Madhuvinahalli - 2.5 MLD - WSP 3) Madhuvinahalli - 1.44 MLD - WSP 4) Kantenahalli - 0.25 MLD -SBR 5) Kalenahalli road - 0.15 MLD - SBR
HOOTAGALLI	5 Nos	3 nos	Installed Capacity 157.65 MLD
BOGADI	1) Beside D	1)Rayankere - 60 MLD	1)Rayankere - 60 MLD
KADAKOLA	2) STP Premises	2) Vidyaranyapuram- 67.65 MLD	2) Vidyaranyapuram- 67.65 MLD
MYSURU	3)Hebbal	3) Kesre - 30 MLD	3) Kesre - 30 MLD
SRIRAMPURA	4)Siddiquinagar		
RAMMANAHALLI	5)J P Nagar		
PERIYAPATNA	3 Nos 1) 20 Guntas in Sy.No 98/6 of Periyapatna village. 2)1 Acre in Sy.No 100 of Mellahalli village. 3) 10 Guntas in Sy.No 8/6 of Halepete Kantapura village.	1 No At Keernalli village-4.20 MLD	Installed capacity 4.20 MLD 1)4.20 MLD SBR STP
SARGUR	There is no UGD system in Sargur Town		
NANJANGUD	1)Deveerammanahalli	2 Nos. 1)Adjacent to Chamarajanagar road, 2)Deveerammanahalli	Installed Capacity 7.03 MLD 1)Adjacent to Chamarajanagar road - 6.54 MLD 2)Deveerammanahalli - 0.49 MLD
T NARSIPURA	2 Nos 1)Byrapura Village Sy No.13/1 (9 guntas) 2)T.Narasipura Village Sy No.14/8 (9 guntas) STP Premises	1 No At Talkad road, Chowvalli	Installed capacity 50 MLD 1)50 MLD SBR STP

SEWER LINES TO BE COMPLETED FOR 2041			
ULB's	Total road network of the Town/ULB(kms)	Sewerage network executed(Kms)	Sewerage network yet to be completed(Kms)
BANNUR	51	40	11
BOGADI	70	63	7
H D KOTE	74.6	0	74.6
HOOTAGALLI	120	95.05	24.95
HUNSUR	175	105	46.3
K R NAGARA	115	85	30
KADAKOLA	29.2	25	4.2
MYSURU	1,762	1,742	20
NANJANGUD	116	80	36
PERIYAPATNA	102.51	66.02	36.49
RAMMANAHALLI	39	26	13
SARGUR	31	0	31
SRIRAMPURA	32	25	7
T NARSIPURA	67	60	7

Sewage Generation			
Issues/Problems	Objectives	Strategies	Proposals/Policy Recommendation
There is no Under Ground Drainage System in Sargur and H D Kote,also the remaining sewer lines must be completed	To provide UGD to keep sanitation	To provide the UGD System to Sargur & H D Kote as the sewage is polluting the neighbouring water body	Completing the Construction of Sewage will kep the sanitation of the ULBs
There is no Sewage Treatment Plant in Sargur and H D Kote,also there will be shortage of Capacity of Existing STP Facility	To provide STP	To provide Sewage Treatment Plant in Sargur and H D Kote,also to increase the Capacity of Existing STP Facility	Constructing the STP in Sargur & H D Kote and also increasing the capacity of the existing STP Capacity for 2041

Waste Water Generation in Mysore in 2041				
Year	Population	Waste Water Generation(MLD)	Existing STPs Capacity(MLD)	Excess Available(MLD)
2011	9,20,550	118.75	157.65	38.90
2021	10,38,469	133.96	157.65	23.69
2031	11,71,453	151.12	157.65	6.53
2041	13,04,437	168.27	157.65	-10.62

2.SEWAGE GENERATION

SEWAGE GENERATION IN 2041								
ULB Name	Projected Population(2041)	Total No. of Habitations(2041)	Water requirement MLD(2041)	Sewage Generated(80% of MLD)	Present STP Capacity(MLD)	Shortage MLD	Proposed STP Capacity(MLD)	Area Required(1 MLD require 0.5 acre)
BANNUR	46,800	11,143	6.32	6.00	5	-1.00	Install capacity 2.00 MLD 1)2 MLD SBR STP	1
H D KOTE	30,200	7,190	4.08	3.87	No STP	(-3.87)	Install capacity 4.00 MLD 1)4 MLD SBR STP	2
HUNSUR	1,04,000	24,762	14.04	13.34	8	-5.34	Install capacity 8.00 MLD 1)8 MLD SBR STP	4
K R NAGARA	66,000	15,714	8.91	8.46	5.79	-2.67	Install capacity 4 MLD 1) Kantenahalli - 2 MLD - SBR STP 2) Madhuvinahalli - 2 MLD - SBR STP	2
MYSURU	13,04,437	3,10,580	283.50	269.33	157.65	-128.78	Install capacity 130 MLD 1) Chikanahally - 25 MLD - SBR STP 2) Madapura -55 MLD - SBR STP 3)Kesare New -20 MLD-SBR STP 4)Vidyaranyapuram New-30 MLD-SBR STP	1)12.5
HOOTAGALLI	39,000	9,286	5.27	5.00				2)27.5
KADAKOLA	17,500	4,167	2.36	2.24				3)10
SRIRAMPURA	23,400	5,571	3.16	3.00				4)15
RAMMANAHALLI	34,010	8,098	4.59	4.36				65 Acres
BOGADI	19,500	4,643	2.63	2.50	7.03	-7.08	Install capacity 8 MLD 1)8 MLD SBR STP	4
NANJANGUD	1,01,000	24,048	14.85	14.11				
PERIYAPATNA	35,400	8,429	4.78	4.54	4.2	-0.34	Install capacity 2 MLD 1)2 MLD SBR STP	1
SARGUR	23,800	5,667	3.21	3.05	No STP	(-3.05)	Install capacity 4 MLD 1)4 MLD SBR STP	2
T NARSIPURA	20,500	4,881	2.77	2.63	5.5	2.87	Install capacity 1 MLD 1)4 MLD SBR STP	1



Existing STPs in Mysuru			
STPs	Rayankere (District A & D)	Vidyaranyapuram/ District B)	Kesare((District C)
Location	Near Rayanakere on Manandwadi road	At Vidyaranya puram inside the sewage farm	At Kesare, side of the outer ring road
Wet Wells	1.STP Campus 2.Beside D	1. J.P. Nagar 2. STP campus	1. Hebbal 2. Siddiquinagar 3. STP campus
Total area covered	48.44 Sqkm	27.21Sqkm	24.56Sqkm
Total capacity	60MLD	67.65MLD	30MLD
Total length of sewer lines	167.45Kms	64.54Kms	122.65Kms



Vidyaranyapuram STP



Kesare STP



Rayanakere STP

Sewage Generation in Mysore			
Issues/Problems	Objectives	Strategies	Proposals/Policy Recommendation
1.There are several missing links at each district and 30 MLD is discharged on land, in low lying areas, which joins water bodies. .. 2.The total length of missing sewer line is 20 km.	Completion of Sewer lines and Construction of STP to treat the Sewage Water	1.Existing STPs are extended to handle the estimated Sewage in 2041. 2.Additional 2 STPs are proposed to cover the missing links	1.To construct the STP for the drainage district E.Under the Urban Renewal Project for Mysore City Corporation 2.The drainage district E covers the areas coming under MCC wards no"s 55 and 56, part of the MUDA layouts like Alanahalli, Sathagalli, Yaraganahalli and the areas all along the TN pura road and Bannur road. 3.The catchment drains towards south east.Two locations are found suitable for location of new STP"s they are Chikanahally & Madapura 4.Approximate area covering under this drainage district is 6.06 sq km and is proposed to be located at outer ring road junction on Bannur road.

URBAN CORE INFRASTRUCTURE

Sewage Generation

- To Protect Public Health.
- Environmental Preservation & Pollution Reduction.
- Integrated City-Wide Sanitation
- Sanitary and Safe Disposal

SBR Reactor:

The Sequencing Batch Reactor is a type of activated sludge process for wastewater treatment where the processes occur in a single tank in sequential steps.

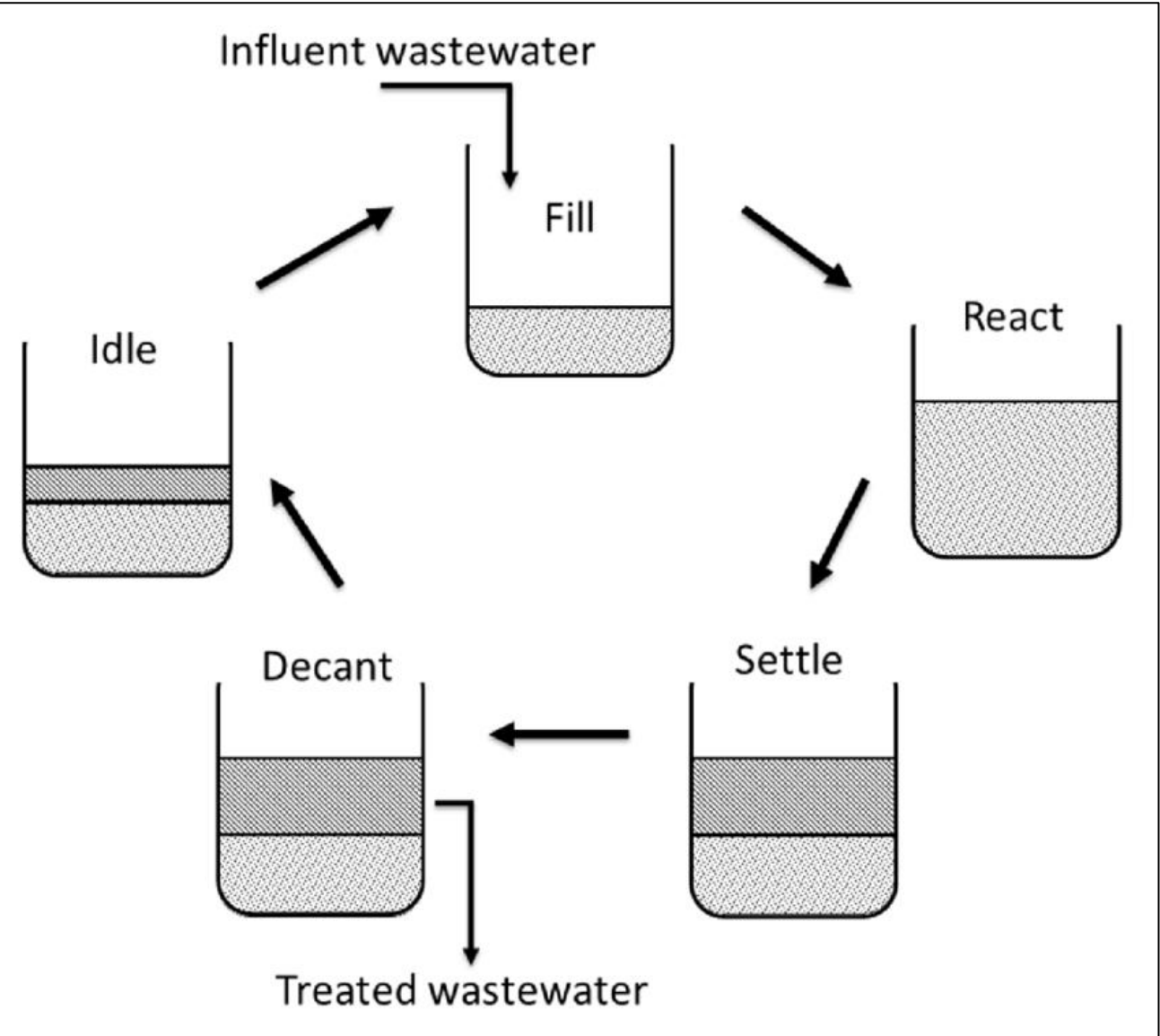
How It Works:

SBR operates in cycles, with each cycle consisting of five stages:

- Fill:** Wastewater enters the reactor.
- React (Aeration):** Air is supplied to promote microbial activity that breaks down organic matter.
- Settle:** Aeration stops, and solids settle at the bottom of the tank.
- Decant:** The treated water (supernatant) is removed.
- Idle:** The reactor prepares for the next cycle.

Applications:

SBR is used for municipal and industrial wastewater treatment, particularly where flow rates or loadings vary.



SCHOOL OF PLANNING AND ARCHITECTURE

NAME: MAHAM KAUSAR

REV/EXM:03

CLASS:3rd Sem, MTech in URP

DRW:03

REG NO:P01ZZ23T107004

DISTRICT DEVELOPMENT PLAN FOR MYSURU DISTRICT