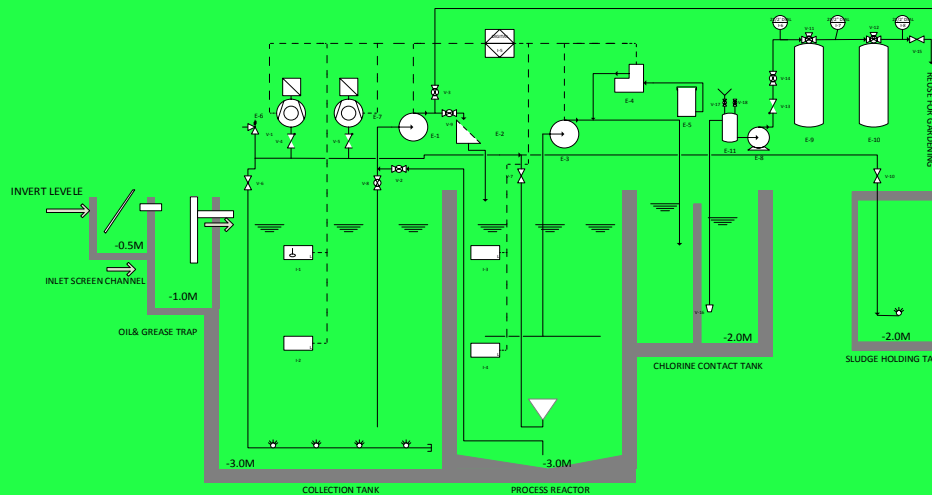


SEWAGE TREATMENT PLANT PRODUCT WRITEUP

Sequencing Batch Reactor (SBR) technology is well known for its simplicity and low cost. It has been widely used for municipal and industrial wastewater treatment applications to meet specific effluent requirements. Sequencing Batch Reactor System is a fill and draw Activated Sludge System. SBR process uses high-efficiency oxygen transfer aeration equipment to satisfy the high-rate oxygen consumption requirement at the beginning of the "fill" and "aeration" cycles. SBR is efficient in carbonaceous pollutant removal, and is easily modified to satisfy nutrient removal of nitrogen (N) and phosphorous (P). Because the fill, aeration, settlement and draw take place in the same reaction tank, thus SBR tank itself also serves as the clarifier itself.

Sequencing Batch Reactor (SBR) Technology Advantages/Benefits

- Lower installation cost than "Conventional" methods
- Less land space required for SBR treatment plants
- Consistent high-quality, low nutrient level effluent
- Tolerates wide swings in flow and organic loading
- No clarifier required
- Better control over filamentous growth and settling problems
- Nutrient removal without chemicals - nitrification and de-nitrification, phosphate removal
- Simple sludge process management
- Less equipment to service and maintain
- Existing plants can often be converted to SBR process
- Less operator attention than "Conventional" processes



Sr.No	Plant Capacity	Area -M ²	Power- KW Estimated	Sludge disposal Estimated /day
1	5- 10 M3/day	9	3.5	300 Liters
2	11- 18 M3/day	16	4	550 liters
3	19 - 25 M3/day	20	4.5	700 Liters

Fully Automatic Start and Stop based on sewage collection in the tank.
 Intelligent mode will be activated based on sewage flow to save electricity