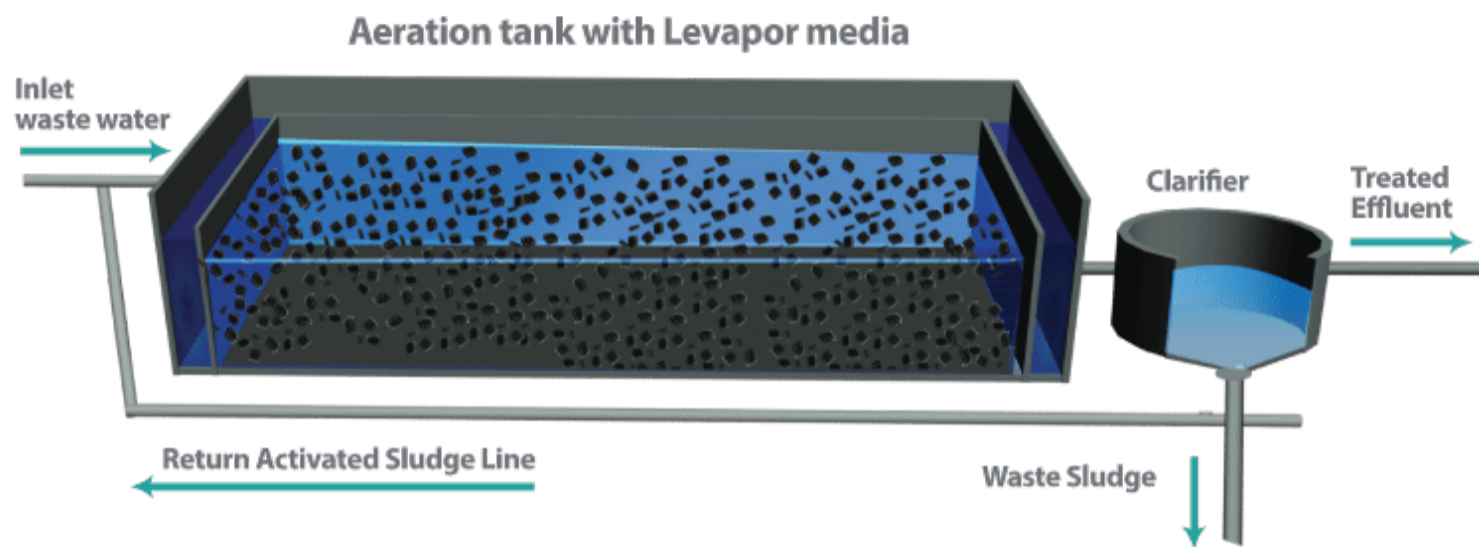


# A truly hybrid process combining both MBBR & activated sludge process

## LEVAPOR IFAS Process

Levapor IFAS is a truly hybrid process which combines both MBBR and activated sludge process in a single process configuration. In the LEVAPOR IFAS process, free floating LEVAPOR MBBR media with high surface area, high absorption capacity and high inner porosity are added in the aeration tank. MLSS is also maintained in the suspended phase just like conventional activated sludge which makes the process truly hybrid process combining benefits of both MBBR and activated sludge process.

## Working of LEVAPOR – IFAS Process



- MLSS is maintained in the suspended phase just like activated sludge process
- Levapor carriers are also added which provides additional biomass on the carrier
- Same simplified operation as activated sludge process

## Advantages of LEVAPOR – IFAS Process

- Reduced footprint and higher volumetric loading compared to both MBBR and activated sludge process
- Higher process stability against shock loads
- Lower sludge production and better settling properties of MLSS resulting in better clarifier performance
- Improved process recovery from upsets
- Higher level of simultaneous nitrification and denitrification (SNDN) resulting in lower energy costs for nitrate recycle in BNR process

## Applications of LEVAPOR-IFAS Process

- BOD/COD removal for municipal wastewater
- Treatment of industrial wastewater for COD removal
- Nitrification of municipal wastewater and industrial effluents
- Upgradation of existing activated sludge process for higher capacity and nitrification

Increase treatment capacity, improved performance, better BOD, COD reduction, complete nitrification & reduced footprint

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