

SEPTIC TANK

Water tight masonry tank into which household sewage is admitted for treatment

- Satisfactory method for individual dwelling or houses which have adequate water supply but NO public sewage system
- Capacity- 500 gallons (Ideal Retention Period is 24 hours)
- Length- twice of breadth
- Depth- 2 m (Liquid depth- 1.2 m)
- Air space depth- 30 cm
- Process of purification in septic

tank

- Solid settles down in a tank to form Sludge
- whereas lighter solid (grease & fat) rise up to form Scum
- These solids undergo Anaerobic digestion & methane is formed
- Liquid which passes out of outlet pipe is called Effluent (contain bacteria, cysts, Helminthic ova & organic matter)
- it is allowed to percolate in subsoil where it undergoes
 - Aerobic digestion by bacteria.
 - Anaerobic digestion - occurs inside the septic

tank

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- Heart of activated sludge is aeration tank
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