

## **INCINERATION**

## **BLACKHOLE**

• Powered by Electricity, Kerosene or any other type of fuel

No power, No Electricity or fuel is required

• Burnt Ash

waste is destructed scientifically by intake of small atmospheric air through strong magnets; after destruction of waste, residue collected from the closed chamber will have certain magnetic/ceramic properties, so the Ash is called as **ceramic ash**

• Additional Secondary combustion System is required

No additional equipment is required

• Adopts Flame combustion

Adopts advanced Plasma Magnetic heat decomposition

Operates at very High Temperatures

Operates at very safe temperatures

Requires trained technicians to operate

Any layman can operate the machine

As lot of electrical parts are used and high temperatures are attained hence the maintenance is very high.

Maintenance cost is very low

Can be used for dry waste only

Can be used for any kind of municipal solid waste

Very High in cost

Comparatively low in cost.

Dioxins levels in emissions are very High.

Due to the controlled oxygen in flow technique the dioxins and furan levels in the emission are very low

<p>Health effects of <b>dioxin</b> and <b>furan</b> emissions from old incinerators; especially during start up and shut down, or where filter bypass is required continue to be a problem.</p>	<p>Dioxins and furans are well under the norms due to the presence of plasma state.</p>
<p>Highly toxic fly ash must be disposed of safely.</p> <p>Very High running cost</p> <p>Needs a centralised approach with huge investment</p> <p>Incinerator plants are immovable</p> <p>Life of incinerator deteriorates after 10 yrs.</p> <p>Cannot run continuously as maintenance is required.</p> <p>Space required is enormous</p>	<p>The ash can be reused in cement and ceramic tile Industries.</p> <p>Running cost is almost nil</p> <p>can be decentralised accordingly.</p> <p>Blackhole can be easily transported</p> <p>life of blackhole is minimum 25yrs</p> <p>Can run continuously for days.</p> <p>Can be operated with less space.</p>