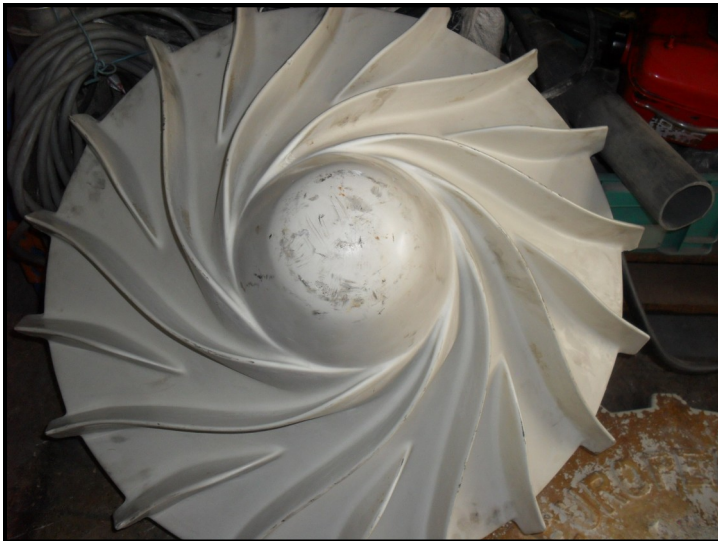


LOSSA Aerator

Low Speed Mechanical Splasher Aerator of Your Choice



AERATION PROCESS

Mechanical aeration is the most practical approach in reducing the approaching BOD when it is installed into the POME lagoon. The requirement is the aeration process must be: (1) highly efficient in oxygen generated per Kwh (2) reliable in runability and (3) low in maintenance.

IF good aeration is achieved with the POME aerobic lagoon, the BOD reduction will be enhanced 2-3 fold compared to traditional natural draft aeration process.

Why Choose LOSSA Aerator?

(1) LOSSA Aerator is highly power-efficient with output of 2.3-2.6 Kg O₂ per Kwh. Why is this possible?

@It runs at very low speed of 80-95 rpm. The lower the speed of rotation of its impeller, the lesser the friction loss and the further is the reach.
@It has very large impeller. Its 11 Kw model has the impeller width diameter of 1.2 meter with multiple fish fins-shaped design.

@It splashes the water into multi-direction from the bottom instead of lifting it up.





(2)Material of Construction and Design of System that will last.....!

BioREM LOSSA aerator is constructed of chemical and corrosion resistant material; its impeller and float is made of specially blended and reinforced fiber-glass and filled with PE foam.

@Its light weight impeller reduces the axial loading on the gear-motor allowing non-stop running and reducing the maintenance requirement

@High buoyancy floats fitted on three poles coupled with hot-dip galvanized steel structure ensures stability even in rough working environments

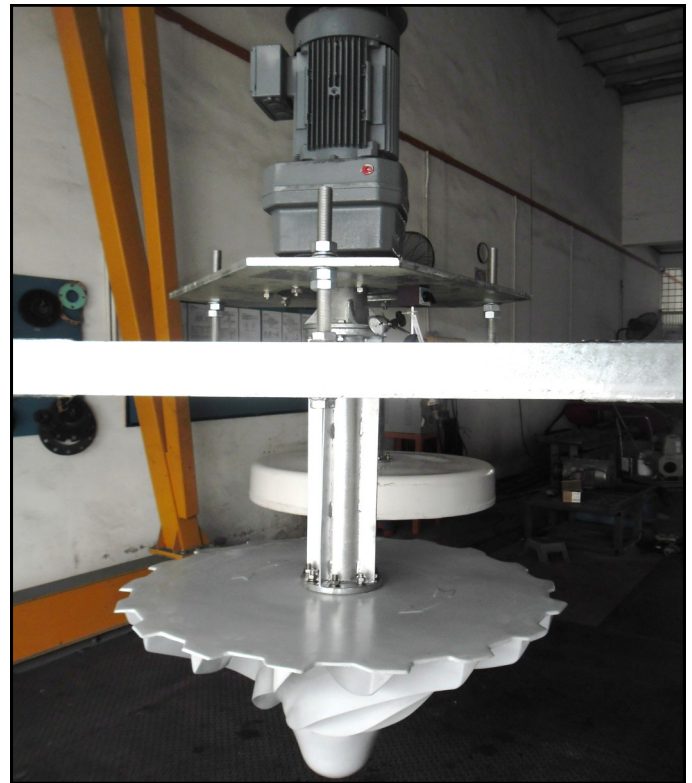
(3) Proven Performance – In Many POME Application

Low speed aerator is the most field proven aerator in all lagoon application around the world. It was used in POME lagoon for many years and can be widely seen others industrial and sewage treatment plant around Malaysia.

@It is limited in its slightly higher investment compared to other mechanical aerator, when the days power were not limited in POME application

@Given the changes in market, whereby biomass energy sources such as kernel shell and even fibres can be converted into commodities, it is time for low speed aerator to re-enter the POME industry with flying colors

@It comes complete with the pontoon structure and ready for power connection and immediate use.



Principal Uses

LOSSA aerator is suitable for all types of aerobic lagoon and pond application. It provides both oxygenation and mixing and suitable for both partial mix and complete mix application.

The number of units and size of aerator to be deployed will be determined in specific to the lagoon size, the input BOD and expected output BOD and the criticality of the final discharge requirement set by DOE.

Typical size for POME application is 7.5 KW, 11 KW and 15 KW with choice of gear-motor between SEW, Sumitomo or other brand of your choice.

High POWER EFFICIENCY
Low SPEED
TURBINE SPLASH aerator