


Trash Boom for Lake Cleaning and Maintenance



Surface Water Pollution in Lake



- Water Surface Pollution arises due to dumping of garbage by locals, tourists and street vendors visiting lakes and also through water hyacinth due to non-maintenance as has been seen in Rabindra Sarobar Lake and Botanical Garden, Howrah.
- The organic trash start decomposing after some duration which in starts effecting the water quality and also responsible for the formation of algie.
- The weed formation in the water surface and water surface trash together creates obstruction to the supply of oxygen which effects the aquatic life as well as quality of the water.



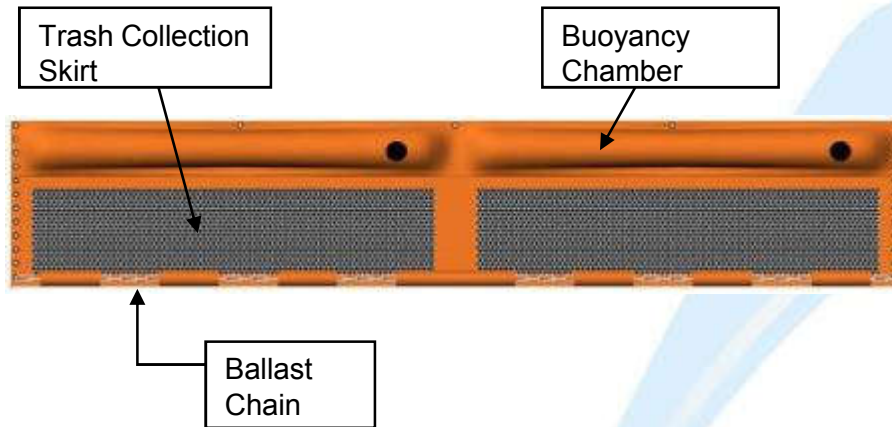
Traditional Cleaning Method



- Traditional method of cleaning using net, float balls and bamboo sticks aren't efficient but are very economical.
- Due to presence of high amount of weeds or any trash, the net gets torn off and cannot be extended to larger area.
- Small particles which are the source of the growth of the weeds cannot be collected thus cleaning effort is rendered.



About Lake Trash Boom



- Trash Boom is a temporary floating barrier used to contain floating trash. Trash Boom consists of:
 - **Trash Collection Skirt:** The portion of the trash boom immersed in water responsible to restrict the movement of the floating trash in the water.
 - **Ballast Chain:** The portion of the trash boom responsible for bringing structural stability for the skirt by maintaining the skirt in the vertical position.
 - **Buoyancy Chamber:** The portion of the trash boom, which is inflated using air or any lighter than water medium which helps the whole system afloat.



Advantages of Trash Boom



- 99% of the floating waste can be retrieved.
- Can be used as floating barrier to isolate clean and unclean locations.
- As floating barrier, growth of the weeds can be restricted to spread from one region to another.
- Speed of cleaning the water body is increased more than 500%
- Trash Boom can be inter-connected as per the requirement of the lake.



Disadvantages of Barricading using Bamboo



- Installation of Bamboo sticks as barricade is very time consuming
- Due to Irregular shape of the Bamboo it is sometimes difficult to create good secured barrier which would result in leaking of weeds and its seeds to the fresh clean area.



Trash Boom as floating barrier



Trash Boom interconnected to cover large area



- Booms can be interconnected to cover a larger area and then disconnect to reduce the area as on when the weeds are extracted



Rabindra Sarobar Lake - Kolkata



Before



Rabindra Sarobar Lake - Kolkata



After



AJC Bose Indian Botanical Garden Lake - Howrah



Before



AJC Bose Indian Botanical Garden Lake - Howrah



After



THANK YOU

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