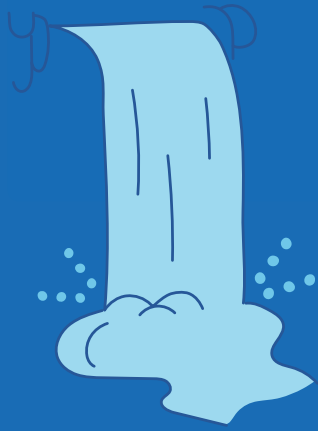




A SYSTEM FOR REMOVAL OF FLOATING DEBRIS IN OPEN WATER CHANNELS



If you're looking for an efficient and reliable system to remove floating debris in an open water channel, this latest invention can help. Indian top-of-the-line technology ensures that your water treatment process is hassle-free and effective. Say goodbye to clogged channels and blocked waterways and hello to a clean and thriving aquatic environment. Choose this Indian system for the ultimate water treatment solution.



WHY

Floating debris not only cause risk to marine life from entanglement and indigestion but also cause damage to humans and cattle – affecting pristine habitats, contamination of beaches, hazardous to public health, injury to cattle grazing in coastal areas, contamination of harbours and marines, damage to fishing vessels, damage to power stations and desalination plants, etc.

WHAT

There exists a demand within the field for an economically viable and energy-efficient system designed to eliminate floating debris within open channels, devoid of the necessity for human supervision.



HOW IT WORKS ?



The debris removal system operates through a systematic three-step process:
Initial Phase: A floating vertical mesh barrier is deployed to intercept debris spanning the width of the river up to a depth of one meter.
Intermediate Stage: Utilizing the drag force exerted by the water flow, the halted debris are directed towards the river bank with assistance from the vertical floating mesh.
Final Stage: A floating conveyor belt mechanism autonomously retrieves the debris from the river bank and transports it to a predetermined destination. Notably, this entire operation is executed without the need for human intervention.

BENEFITS

This technology boasts significant advantages over existing solutions across multiple metrics:

1. **Cost Efficiency:** It is five times more economical compared to current alternatives.
2. **Enhanced Cleaning Efficiency:** Demonstrates a remarkable 97% improvement in cleaning effectiveness.
3. **Environmental Sustainability:** Distinguishes itself by being entirely eco-friendly, a feature absent in many other products.
4. **Simplified Manufacturing and Maintenance:** Offers ease of both production and upkeep, contributing to its overall accessibility.
5. **Autonomous Operation:** Operates seamlessly without the requirement of human intervention, enhancing efficiency and reducing operational complexities.

PATENTED TECHNOLOGY

The technology has been patented in India and South Africa .

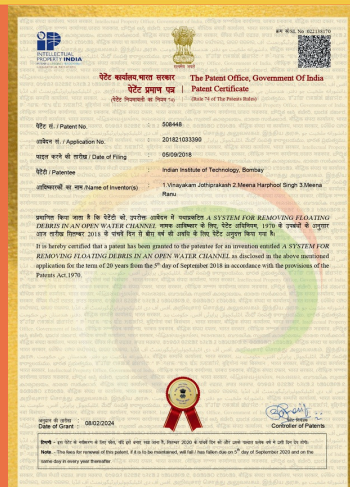
The patent details are:

Indian Patent Number : 508448

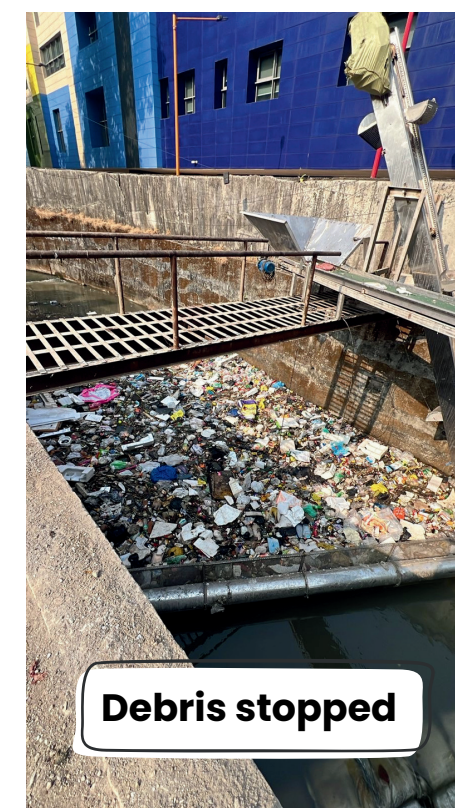
South Africa Patent Number : 2021/02147

Patent Owner: IIT Bombay

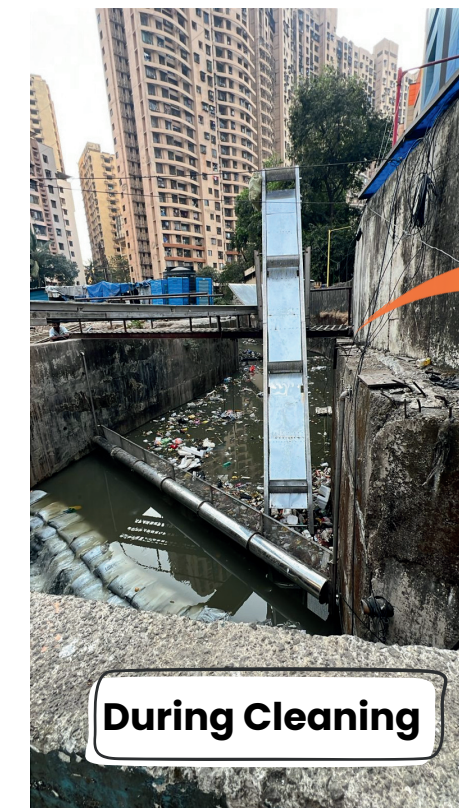
Inventors: Prof. V. Jothiprakash
Harphool Singh Meena
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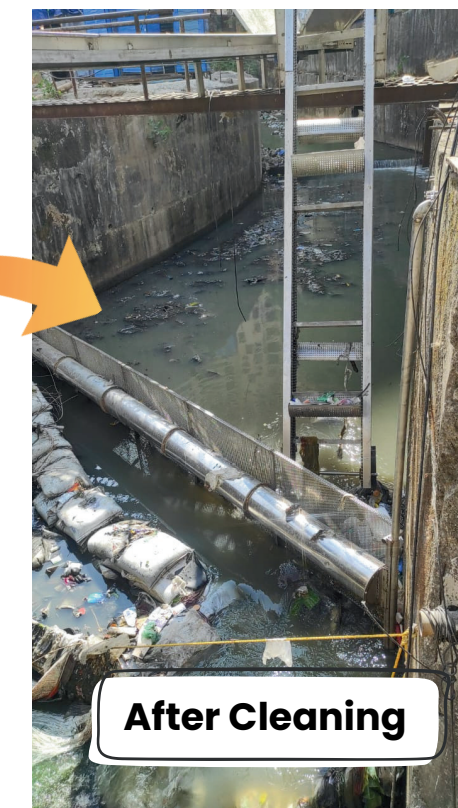
IIT BOMBAY AND AINWESHA ENGINEERING SIGN LICENSE AGREEMENT FOR WATERWAY TECHNOLOGY



Debris stopped



During Cleaning



After Cleaning



Ready for SWM Dumping



Scan to see the video

Successful field testing of patented eco-hydraulic technology at Thane Municipal Corporation drains removing floating debris without human intervention. Nearly 80% plastic waste collected, enabling recycling and reducing landfill load through a sustainable, real world solution.



CONTACT US

If you are interested in technology or further details please feel free to contact us.

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