



...
Engineering
Solutions
For A Cleaner
Tomorrow



ABOUT US



VISION

To innovate and engineer solutions for a cleaner tomorrow



MISSION

To be the market leader and most trusted brand in India for environmental cleaning solutions to rejuvenate water bodies



VALUES

Excellence:

To strive for perfection in everything we do

Innovation:

To keep pushing ourselves to find more effective and cost efficient solutions for a cleaner planet

Leadership:

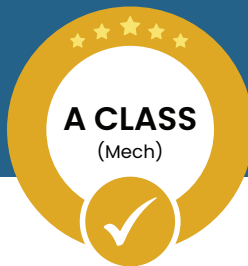
To embrace change and walk the uncharted path so that we may lead by example

Sustainability:

To always focus on long term and holistic solutions that can be institutionalized and carried forward by future generations

Collaboration:

To realise shared dreams by working together with all stakeholders towards achievement of common goals



02

workshops

Navi Mumbai
& Panvel

20,000 sqft

of workshop area
between two
locations with the
provision to expand

by an additional
20,000 sqft



PROJECTS ACROSS INDIA

Jhelum River, Baramulla
Desilting with Amphibian Excavator

Dal Lake, Kashmir
Aquatic Weed Removal

Gomti River, Lucknow
Desilting with Amphibian Excavators

Delhi Drains
Desilting with Draglines

Ghaghra River, Barabanki & Ayodhya
Dredging to build channel for flood protection

Kishor Sagar Talab, Kota
Aquatic Weed Removal

Udaipur Lakes
Aquatic Weed Removal

Sabarmati River, Ahmedabad
Trash Skimming

Mithi River, Mumbai
Removal of floating trash and litter

Mumbai Drains
Desilting with Amphibian Dredger

Godavari River, Nasik
River Surface Cleaning during Kumbh and ongoing

Bellandur Lake, Bangalore
Aquatic Weed Removal

Kerala backwaters
Eradication of water hyacinth

Hyderabad lakes and tanks
Aquatic weed removal

Ganga River, Patna
River Surface Cleaning

Dipor and Silsako Beels, Guwahati
Building channel for Flood Free Guwahati

IOCL Guwahati refinery
Desilting intake channel

Barak and Brahmaputra rivers, Assam
Dredging tributaries for flood mitigation

Ranchi Lakes
Aquatic weed removal

Ganga River, Sahibganj
River surface cleaning

Bilaspur, Chattisgarh
Aquatic weed removal

Upper and Lower Lakes, Bhopal
De-weeding and desilting

Baroda Lakes
Aquatic weed removal

Godavari River, Rajamundry
River Surface Cleaning & ongoing

Marina Beach, Chennai
Mechanised beach cleaning with Surf Rakes

Hussainsagar Lake, Hyderabad
Floating trash removal and desilting

OUR SERVICES



Aquatic Weed Removal



Beach Restoration



Corrective Dredging



Bio/Phyto Remediation



Desilting and
Sludge Removal



Floating Trash
Removal

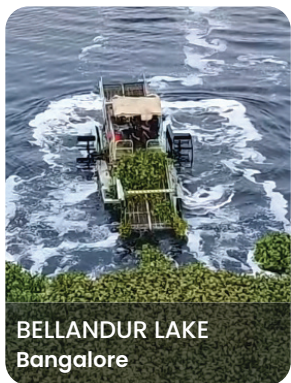


Drain
Cleaning

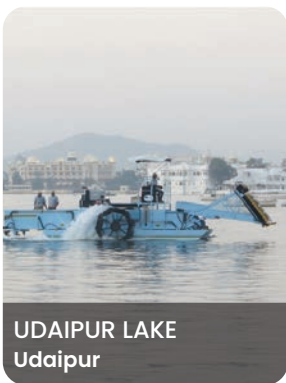


WEED Harvester

To remove aquatic vegetation, weeds & algae from still water bodies



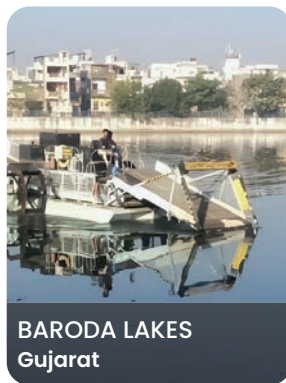
BELLANDUR LAKE
Bangalore



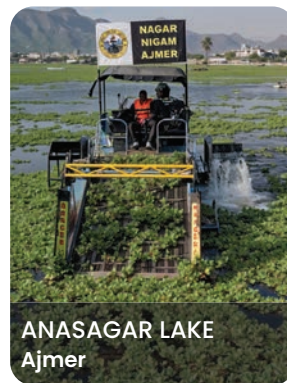
UDAIPUR LAKE
Udaipur



KERALA
Backwaters



BARODA LAKES
Gujarat



ANASAGAR LAKE
Ajmer

CT 13 WEED HARVESTER

OPERATING DIMENSIONS	12.5m X 4.6m X 3.6m
WEIGHT	7,100 Kgs Approx
DRAFT	0.35m Empty, 0.55m Loaded
ENGINE	Air/Water Cooled 4 Cylinder Approx. 60 HP
CUTTING WIDTH	2.1m
CUTTING DEPTH	0-1.6m Adjustable
STORAGE CAPACITY	13.0m ³
MATERIAL OF CONSTRUCTION HULL	Stainless Steel
MATERIAL OF CONSTRUCTION SUPER STRUCTURE	Carbon Steel
CUTTING KNIVES	Horizontal & Vertical
PROPULSION	Independent Reverse/Forward Twin Paddle Wheels Amidship Having 1.62m dia X 0.72m Wide



TRASH Skimmer

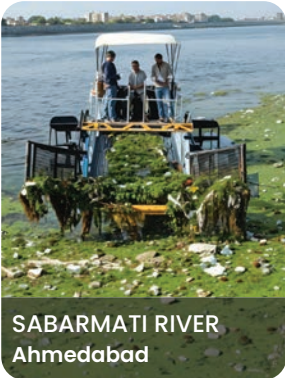
To collect floating trash and litter from flowing water bodies



MITHI RIVER
Mumbai



GODAVARI RIVER
Nashik



SABARMATI RIVER
Ahmedabad



GANGA RIVER
Sangam



GANGA RIVER
Varanasi

CT 13 TRASH SKIMMER	
OPERATING DIMENSIONS	12.5m X 4.6m X 3.6m
WEIGHT	7,100 Kgs Approx
DRAFT	0.35m Empty, 0.55m Loaded
ENGINE	Air/Water Cooled 4 Cylinder Approx. 60 HP
SKIMMING WIDTH	3.15m
SKIMMING DEPTH	0-1.6m Adjustable
STORAGE CAPACITY	13.0m³
MATERIAL OF CONSTRUCTION HULL	Stainless Steel
MATERIAL OF CONSTRUCTION SUPER STRUCTURE	Carbon Steel
COLLECTION FLARES	Hydraulic Open/Close
PROPULSION	Independent Reverse/Forward Twin Paddle Wheels Amidship Having 1.62m dia X 0.72m Wide

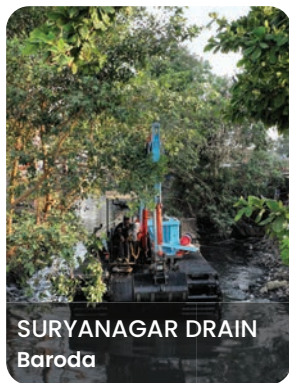


DrainMaster

To crawl inside congested open drains and remove sludge and solid waste



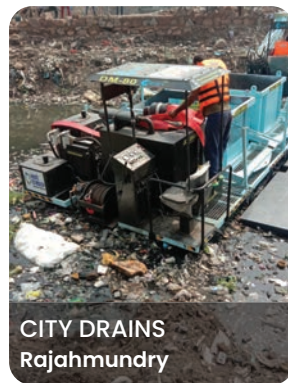
BARAPULLAH DRAIN
Delhi



SURYANAGAR DRAIN
Baroda



CITY DRAINS
Vasai Virar



CITY DRAINS
Rajahmundry



CITY DRAINS
Thane

DM 280

DM 350

OPERATING WIDTH	2760-2900 mm	3400-3500 mm
OPERATING LENGTH	5800-6200 mm	6900-7200 mm
OPERATING HEIGHT	3450-3600 mm	3550-3700 mm
OPERATING WEIGHT	12-14 MT	16-18 MT
MATERIAL OF CONSTRUCTION- PONTOON	Carbon Steel, Sand Blasted	Carbon Steel, Sand Blasted
PROPULSION	2 Hydraulic Travel Motors	2 Hydraulic Travel Motors
REACH	5000-5500 mm	6000-6500 mm
DIG DEPTH	2300-2700 mm	4000-4400 mm
UNLOADING HEIGHT	4300-4700 From Waterline	5100-5500 From Waterline
DITCH CLEANING BUCKET	0.17-0.18 m³	0.20-0.24 m³
TOTAL HOLDING CAPACITY	1500-1800 kgs	3400-3600 kgs
ENGINE	Min 65 HP Diesel	Min 90 HP Diesel
ATTACHMENTS	Standard Bucket, Clam Shovel, Weed Rake, Auger, Rockbreaker, Mosquito Sprayer, Dewatering Pump.	Standard Bucket, Clam Shovel, Weed Rake, Auger, Rockbreaker, Mosquito Sprayer, Dewatering Pump.

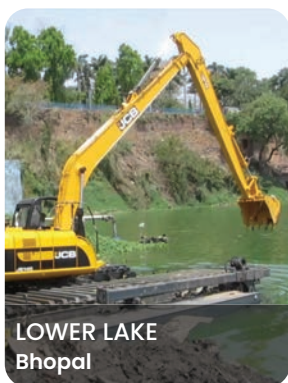


AMPHIBIOUS Excavator

To desilt and increase water holding capacity of shallow water bodies



GHAGRA RIVER
Barabanki UP



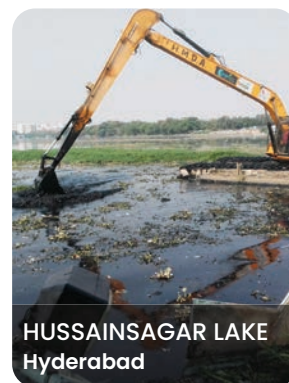
LOWER LAKE
Bhopal



IOCL NOONMATI
Guwahati



NAJAFGARH DRAIN
Delhi



HUSSAINSAGAR LAKE
Hyderabad

MB 205 AMPHIBIOUS EXCAVATOR

OVERALL LENGTH	14.0 - 14.5 m
OVERALL WIDTH min/max (without addl. pontoon)	4.5/5.5 m
OPERATING WEIGHT	32-34 Tonnes
BUCKET CAPACITY	0.45 cu m
ENGINE	JCB 140 HP
DIGGING REACH	15.3 m
CUTTING HEIGHT	13.2 m
DIGGING DEPTH	10 m
SPUDS	6 m Length
GROUND PRESSURE	0.20 kg/cm ²
PROPULSION	2 Travel Motors Per Pontoon Bi Directional Track Movement
ATTACHMENTS	Weed Rake, Dredge Pump, Rockbreaker, etc.



CUTTER SUCTION Dredger

To deepen and channelise water bodies by dredging up sediment



GHAGHRA RIVER
Barabanki



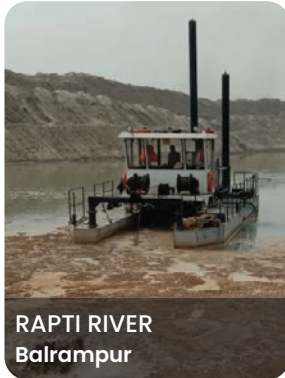
JIA BHAROLI RIVER
Assam



SHARDA RIVER
Lakhimpur



BANAS RIVER
Rajasthan



RAPTI RIVER
Balrampur

	CSD 350	CSD 500	CSD 650
OVERALL LENGTH (Incl. Ladder And Spudkeepers)	26 m	38.5 m	61.20 m
LENGTH OVER PONTOONS	16.5 m	25.50 m	49.30 m
WIDTH	6 m	7.95 m	10.50 m
DEPTH	1.5 m	2.00 m	2.78 m
DRAFT	0.80 m	1.05 m	1.65 m
TOTAL WEIGHT	55 t	140 t	535 t
MIN/MAX DREDGING DEPTH	1/9 m	2.5/14 m	3/18 m
DREDGING WIDTH	27 m	40 m	63 m
MAXIMUM MIXTURE CAPACITY	2,000 m³ h	4,000 m³ h	7,000 m³ h
SUCTION/ DISCHARGE INTERNAL PIPE DIAMETER	350 mm	550/500 mm	650 mm
CUTTER POWER	55 kw	180 kw	700 kw
TOTAL INSTALLED POWER	447 kw	1293 kw	2972 kw



BEACH CLEANING Machine

To make beaches litter free by mechanical raking



MARINA BEACH
Chennai



RAMKRISHNA BEACH
Vishakhapattanam



MAHABALIPURAM
Beach, Tamil Nadu



GHOGLA BEACH
Diu



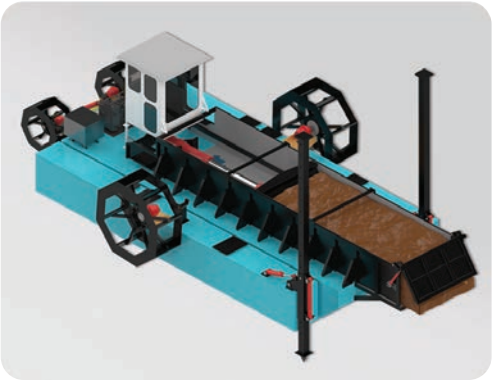
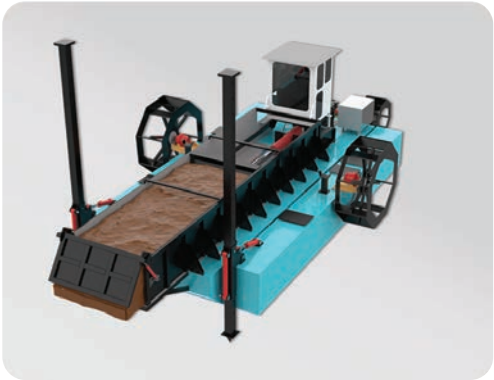
INS KADAMBA
Karwar

	400 HD	600 HD
LENGTH	3.6 m	4.0 m
WIDTH	2.3 m	2.3 m
HEIGHT	2.2 m	2.3 m
WEIGHT	Approximately 1225 kg	Approximately 1800 kg
CLEANING WIDTH	1.8 m (1.2 m of deep cleaning)	2.14 m (1.8 m of deep cleaning)
CLEANING DEPTH	Adjustable to 15 cm	Adjustable to 15 cm
PERFORMANCE	Cleans up to 20,000 m ² /h	Cleans up to 32,000 m ² /h
DUMP HEIGHT	2.75 meters	2,75 meters
HOPPER CAPACITY	1.52 cubic meter (1600 kg cap.)	2.3 cubic meter (2000 kg cap.)
TINES	370 Stainless steel tines in 1.2 m rows	700 Stainless steel tines in 1.8 m rows
GALVANIZATION	All frame and body parts Hot Dip Galvanized – optional	All frame and body parts Hot Dip Galvanized – optional
TRACTOR REQUIREMENTS	35 PTO Horsepower 4-wheel drive agricultural type tractor with 71 cm rear wheels	60 PTO Horsepower 4-wheel drive agricultural type tractor with 76 cm rear wheels



SELF UNLOADING Ejector Barge

To provide a faster way of transferring and unloading waste on shore



OPERATING LENGTH	11.2 to 12.2 m
OPERATING WIDTH	6.2 to 6.6 m
OPERATING HEIGHT	3.2 to 3.6 m
UNLOADING TIME	2 to 3 Minutes
UNLOADING TYPE	Hydraulic Dozing
MATERIAL OF CONSTRUCTION HULL	Carbon Steel
MATERIAL OF CONSTRUCTION SUPERSTRUCTURE	Carbon Steel
MAX DRAFT EMPTY	0.5 m
MAX DRAFT LOADED	0.8 m
ENGINE	Water Cooled 4 Cylinder Min 65 HP
STORAGE VOLUME	13 cum
UNLOADING	Hydraulically Self Unloading Dozer Assembly
STORAGE CAPACITY	20 MT min.
PROPULSION	Bi-directional Quadruple Paddle Wheels hydraulically raised and lowered

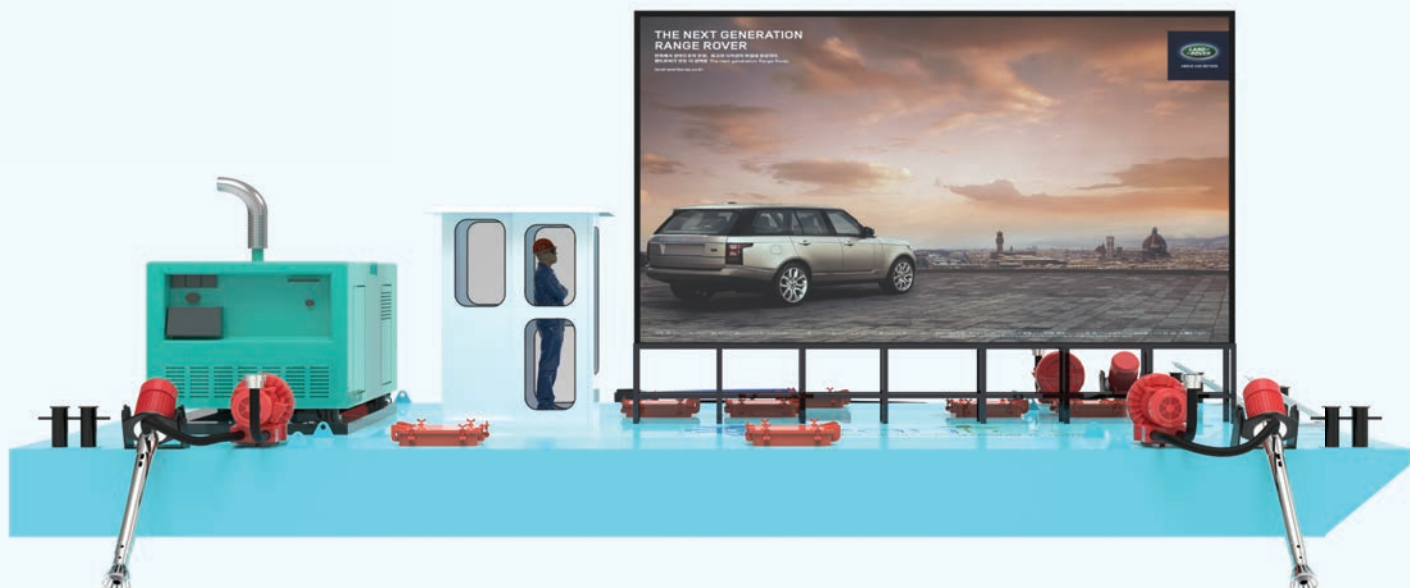


PONTOON Excavator

To desilt water bodies in deeper areas



EXCAVATOR MODEL	JCB JS 205
ENGINE	140 HP @2000RPM
BOOM LENGTH	8.7 m
DIPPER LENGTH	6.4 m
BUCKET CAPACITY	0.45 cu m
MAX DIGGING REACH	13 m
MAX DIGGING DEPTH	8.8 m
PONTOON MATERIAL OF CONSTRUCTION	Carbon Steel
PONTOON DIMENSIONS	4 x 8 x 1.5 m / each
NO. OF PONTOONS	2
MAX DRAFT	0.7 m
SPUDS	Two nos. 6m each



ECOLOGICAL Floating Billboard

To oxygenate water bodies and capture eye balls with digital ads



ADVERTISEMENTS



CCTV FEEDS

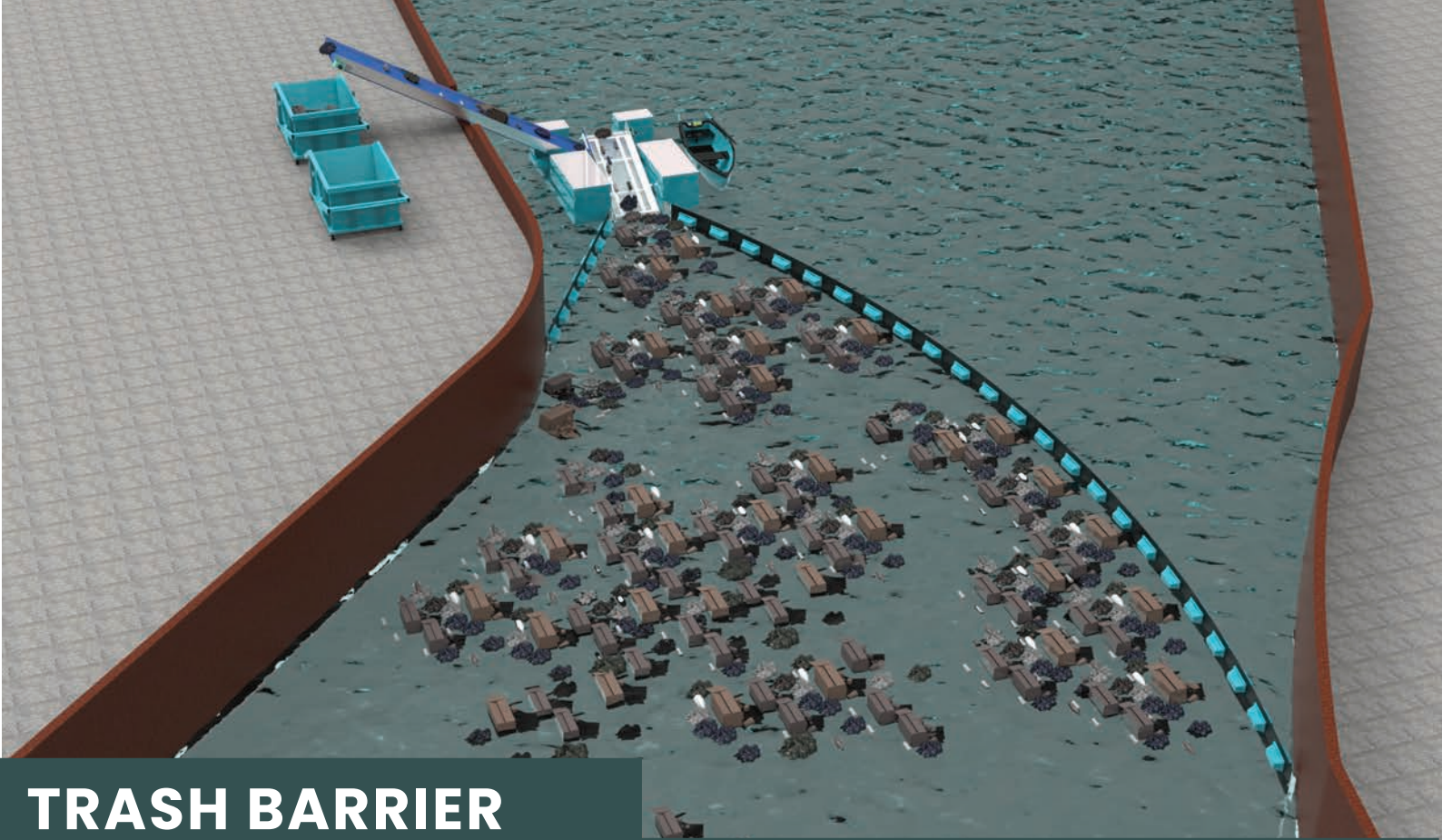


PUBLIC SAFETY WARNINGS



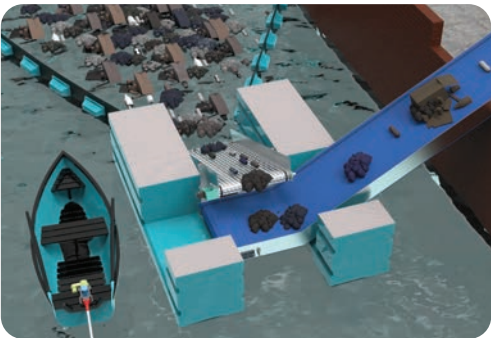
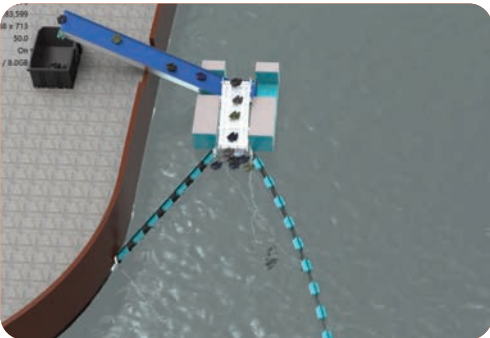
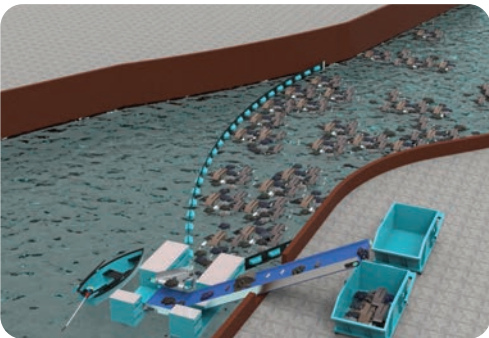
AWARENESS CAMPAIGNS

CENTER PONTOON	10 x 3.8 x 0.66 m
SIDE PONTOON	9.7 x 1.22 x 0.65 m
MATERIAL OF CONSTRUCTION	Carbon Steel
AERATORS	4
AERATOR TYPE	High volume air blower with dispersion blades
AERATOR MOUNTING	Height adjustable, can be placed horizontally on Pontoon
AERATION REACH	8 m
GENSET	Silent diesel Genset min 60 kw
LED BILL BOARD (SIZE)	19 x 9 feet
LED BILL BOARD (CONNECTIVITY)	Remotely optional
LED RESOLUTION	P4 - P10 available



TRASH BARRIER & Recovery System

To trap floating trash at confluence points and remove through conveyors



BARRIER MATERIAL	Hypalon (UV, oil, chemicals, saltwater resistant)	
SECTIONS	5-20 m	
DRAFT	350 mm	
FREEBOARD	260 mm	
FLOAT MATERIAL	HDPE filled with PU foam	
FLOAT DIMENSIONS	18 x 8 x 5 inches	
CONNECTORS	ASTM slide aluminium connectors	
ANCHORING	At regular intervals with 50-100 Kgs Anchors	
	COLLECTION CONVEYOR	UNLOADING CONVEYOR
OPERATING LENGTH	8 feet	20 feet
OPERATING WIDTH	3 feet	3 feet
FRAME MATERIAL	Marine-grade stainless steel	Marine-grade aluminum
CONVEYOR MATERIAL	Honeycomb SS conveyor with flights at every 1 ft	Perforated modular plastic with flights at every 1 ft
DISCHARGE HEIGHT	Discharge height from water surface 3.5m Minimum	
POWER SOURCE	1 HP electric motor and gearbox, speed controlled via VFD	
MOUNTING	Twin SS pontoons 8 x 2.5 x 2.5 feet	
OPTIONAL	Hydraulically operated Boom system to lift heavier loads	
OPTIONAL	Hydraulic anti clog feeder system	

ADDITIONAL PRODUCTS & SERVICES



WATERMASTER AMPHIBIOUS DREDGER



EXCAVATOR HOPPER BARGE



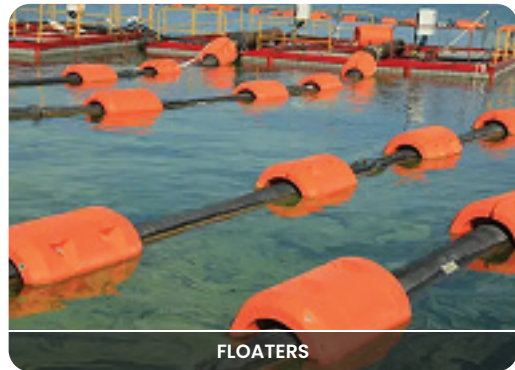
AQUATIC VEGETATION SHREDDER



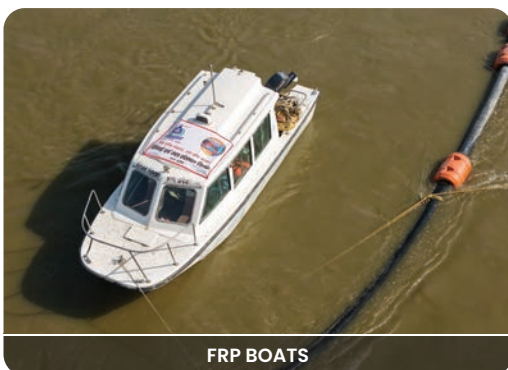
DREDGE PUMP ATTACHMENT



HDPE PIPES



FLOATERS



FRP BOATS



WORKBOAT



BIO-PHYTO REMEDIATION



DE-CENTRALISED STPS

Thanks to our Esteemed customers

CENTRAL GOVERNMENT



Office of the Principal Scientific Adviser
to the Government of India



PSU



STATE WATER RESOURCES DEPARTMENTS



DEVELOPMENT AUTHORITIES



URBAN LOCAL BODIES



PRIVATE



Regd Office:

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Sales Office:

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New Delhi-110025

Factory:

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