

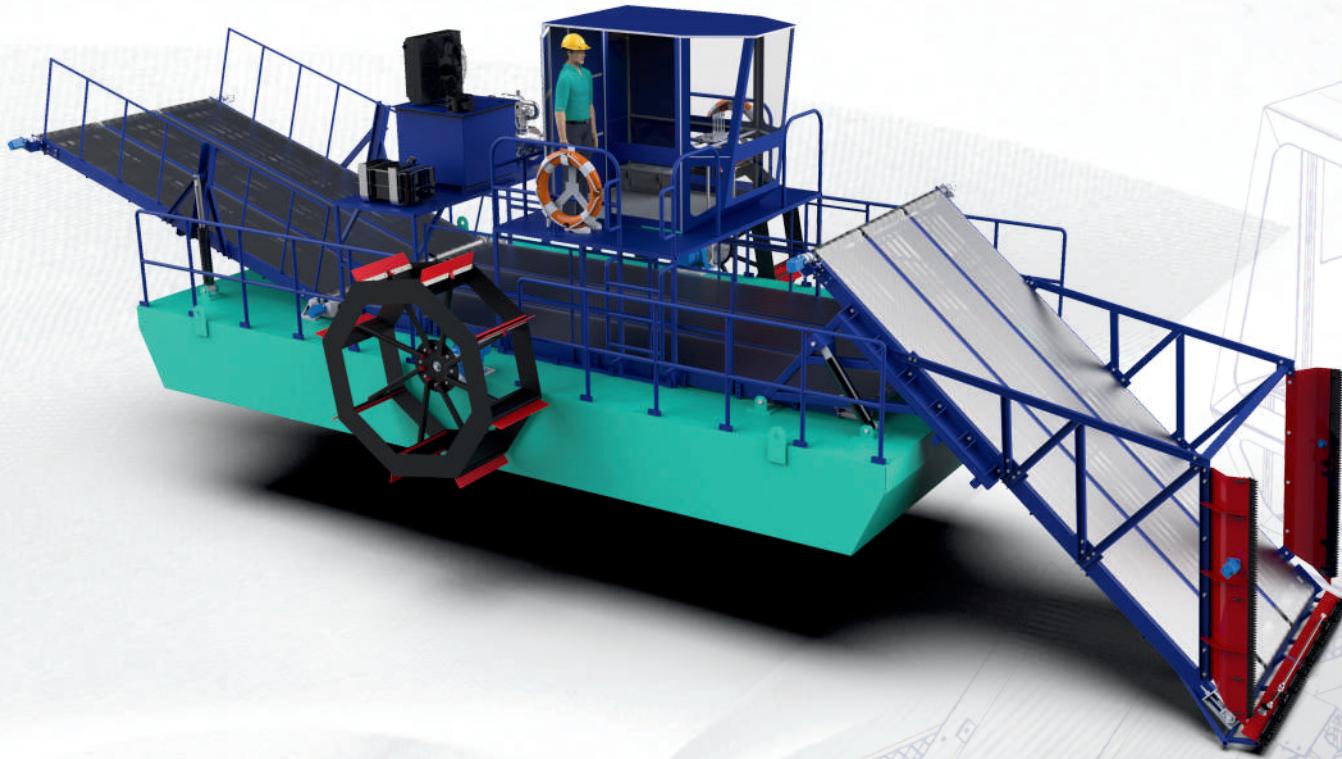
# WEED HARVESTER



 **POTENTIAL**  
ENGINEERING

GLOBAL LEADER &  
YOUR PARTNER IN  
WATER POLLUTANT REMOVAL  
SYSTEM

# WEED HARVESTER



Potential Engineering Aquatic Weed Harvester is designed for efficient harvesting of weeds and aquatic plants from reservoirs, rivers, lakes, and coastal waters. With a user-friendly control desk, a single operator can easily manage its harvesting operation collection, loading & unloading activities using intuitive hydraulic levers. This innovative machine offers a streamlined solution for one-man operation, allowing comprehensive movement control while minimizing manpower. Its versatile design facilitates the swift removal of aquatic plants & weeds, ensuring effective water body maintenance. Its capabilities empower a solitary operator to efficiently navigate and address aquatic challenges. Its multi-functional features and ease of operation make it an indispensable tool for aquatic ecosystem maintenance and cleanup operations worldwide.

# ABOUT PROBLEMS



## CATTLE FEED, HYACINTHS & WEED REMOVAL

Weed harvesters struggle to efficiently remove diverse pollutants such as cattle feed, hyacinths, and weeds from water bodies due to their varied compositions, thereby hindering effective waste removal.



## UNLOADING OF WEED & TRASH

Weed harvester's limited capacity demands frequent disposal trips, hampering their continuous operation and water body cleaning efficiency.



## TRANSPORTING HUGE SIZE WEED HARVESTER

Moving oversized weed harvesters by road presents logistical hurdles necessitating special permits, meticulous route planning, and potential infrastructure limitations.



## COLLECTING HIGH VOLUME OF WEED & TRASH

Collecting substantial waterborne weed & trash and transporting it to shore for disposal or recycling poses logistical challenges due to diverse debris types and volume.

# OUR SOLUTIONS

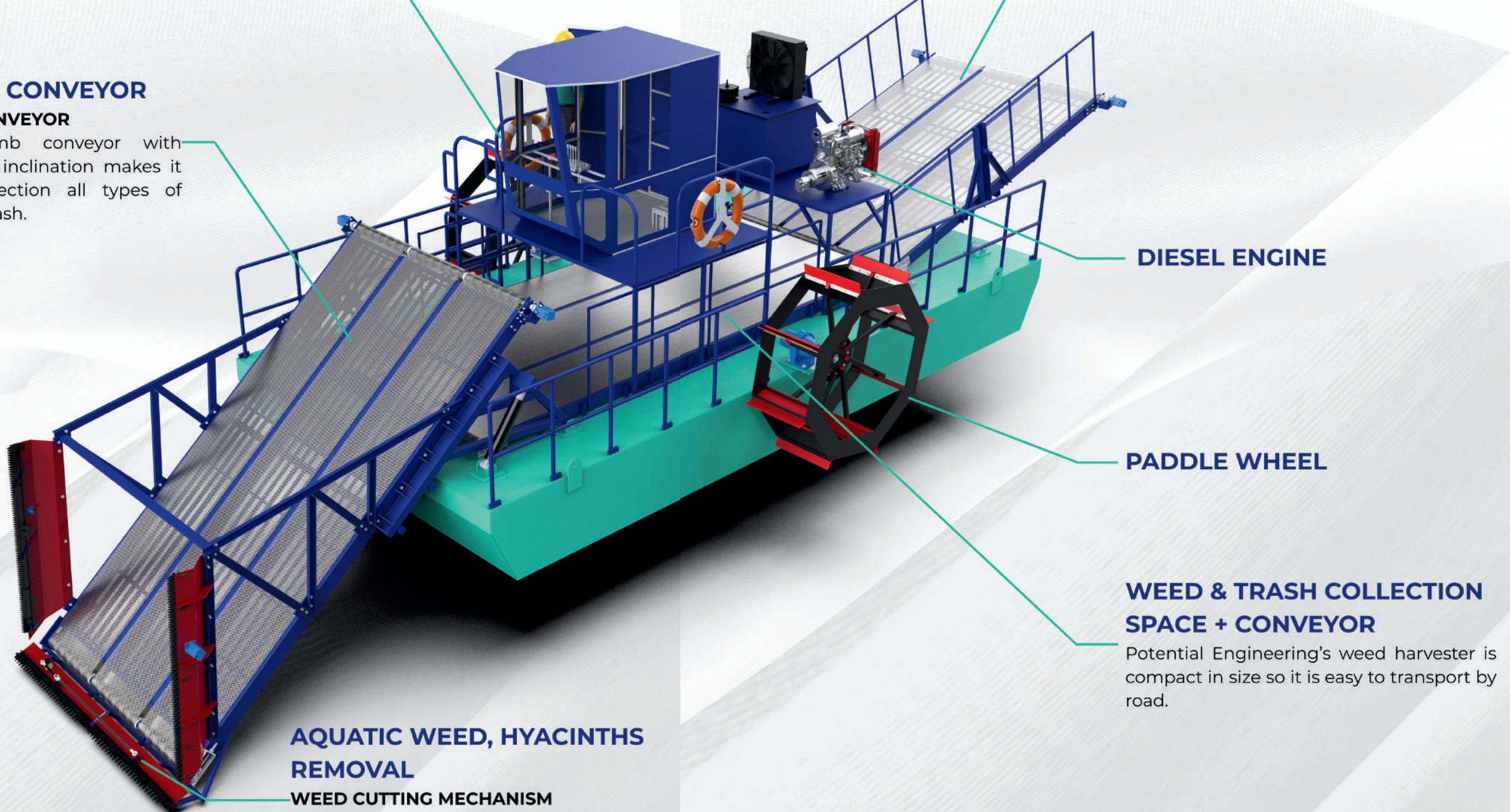
## CONTROL ROOM

An all time weather room for a weed harvester houses operational systems, enabling navigation, conveyor control, and monitoring of cleaning activities.

## COLLECTION CONVEYOR

### HONEYCOMB CONVEYOR

Intake honeycomb conveyor with ability to change inclination makes it versatile for collection all types of floating weed & trash.



## AQUATIC WEED, HYACINTHS REMOVAL

### WEED CUTTING MECHANISM

Potential Engineering's weed harvester has capacity to pull, cut aquatic weed, hyacinths etc.

## EFFECTIVE UNLOADING

### HONEYCOMB CONVEYOR

The height of the unloading conveyor can be adjusted hydraulically based on operational requirements

### DIESEL ENGINE

### PADDLE WHEEL

## WEED & TRASH COLLECTION SPACE + CONVEYOR

Potential Engineering's weed harvester is compact in size so it is easy to transport by road.

# SAILENT FEATURES

- ❖ Easy to transport because of compact size.
- ❖ Pulling as well as cutting mechanism for collecting aquatic weed with high efficiency.
- ❖ Large storage capacity.
- ❖ Long life as marine grade material with paint.
- ❖ Easy to operate.
- ❖ Weed harvester has transport barge which can transfer collected trash to shore.

# APPLICATION

- ❖ Aquatic Weed Removal
- ❖ Eutrophication Control
- ❖ Lake and Reservoir Management
- ❖ Irrigation Channel Maintenance
- ❖ Tourism and Aesthetic Enhancement
- ❖ Wastewater Treatment Plant Support

# TECHNICAL SPECIFICATIONS

## WEED HARVESTER

<b>CAPACITY</b>	6 - 20 m <sup>3</sup>
<b>MAX SAILING SPEED</b>	upto 7 kmph
<b>COLLECTION CONVEYOR</b>	Honeycomb Screen Belt
<b>CUTTER KNIVES</b>	Reciprocating horizontal & vertical
<b>STORAGE CAPACITY</b>	upto 6000 kg

## FLOATATION BARGE

<b>COMPARTMENTS</b>	Airtight / watertight compartments
<b>DRAFT</b>	0.40 m Empty / 0.60 m Loaded

## HARVESTING HEAD

<b>TYPE OF CONVEYOR</b>	Metallic Belt Honey Comb Conveyor
<b>CONVEYOR BELT</b>	25 mm x 25 mm standard duty SS304 mesh
<b>ANGLE OF INCLINATION</b>	Adjustable Degree

## POWER SOURCE

<b>POWER SOURCE</b>	Diesel Engine
<b>CAPACITY</b>	upto 75 HP
<b>FUEL TANK CAPACITY</b>	upto 200L

## MOC (MATERIAL OF CONSTRUCTION)

<b>HULL MATERIAL</b>	High strength Carbon steel
<b>BARGE</b>	High strength Carbon steel
<b>WHEEL</b>	High strength Carbon steel
<b>CONVEYOR</b>	Stainless Steel 304

## SURFACE FINISH

<b>BLASTING</b>	Abrasive Sand blasting
<b>PAINTING</b>	Epoxy primer & polyurethane paint



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