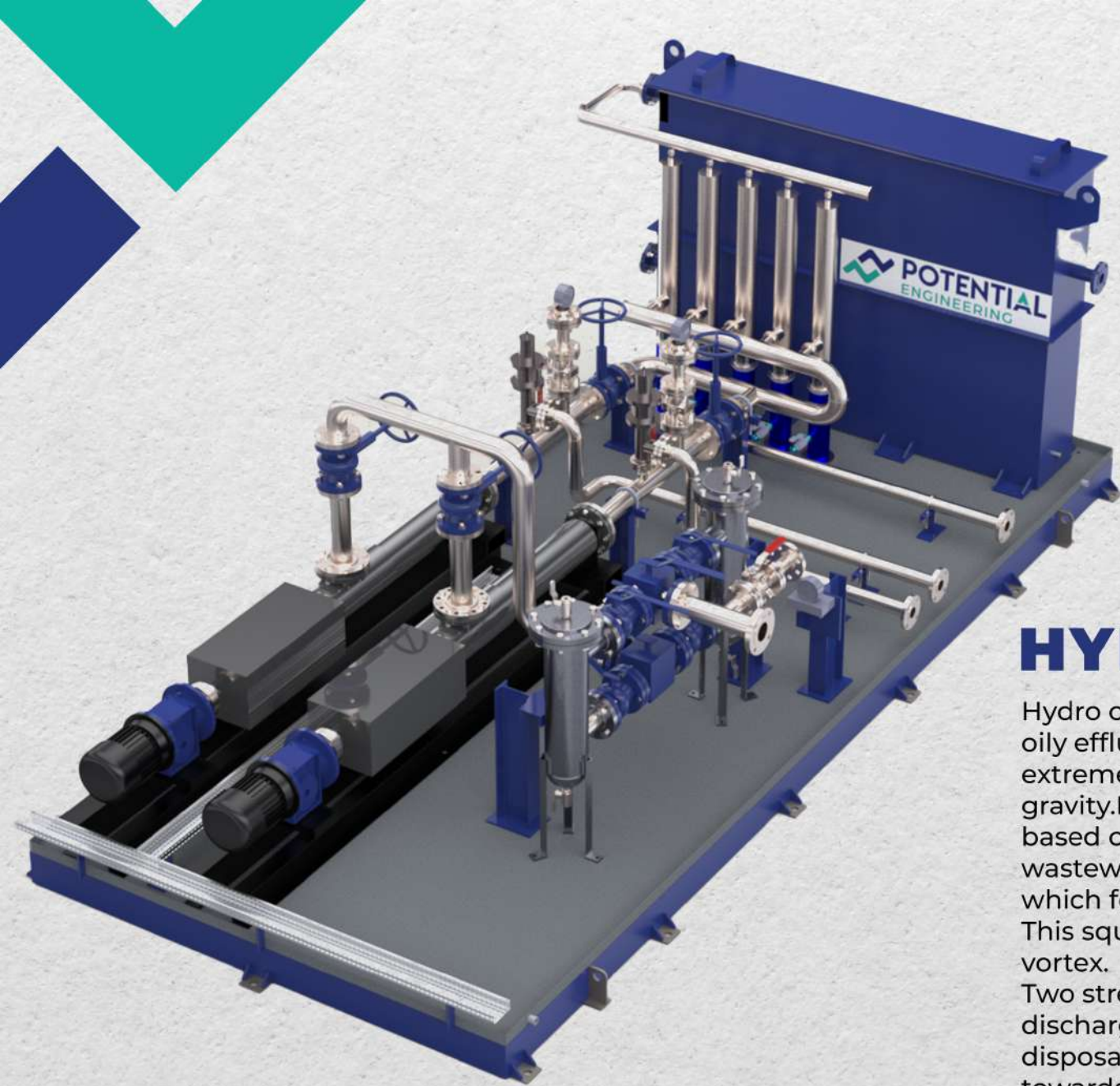




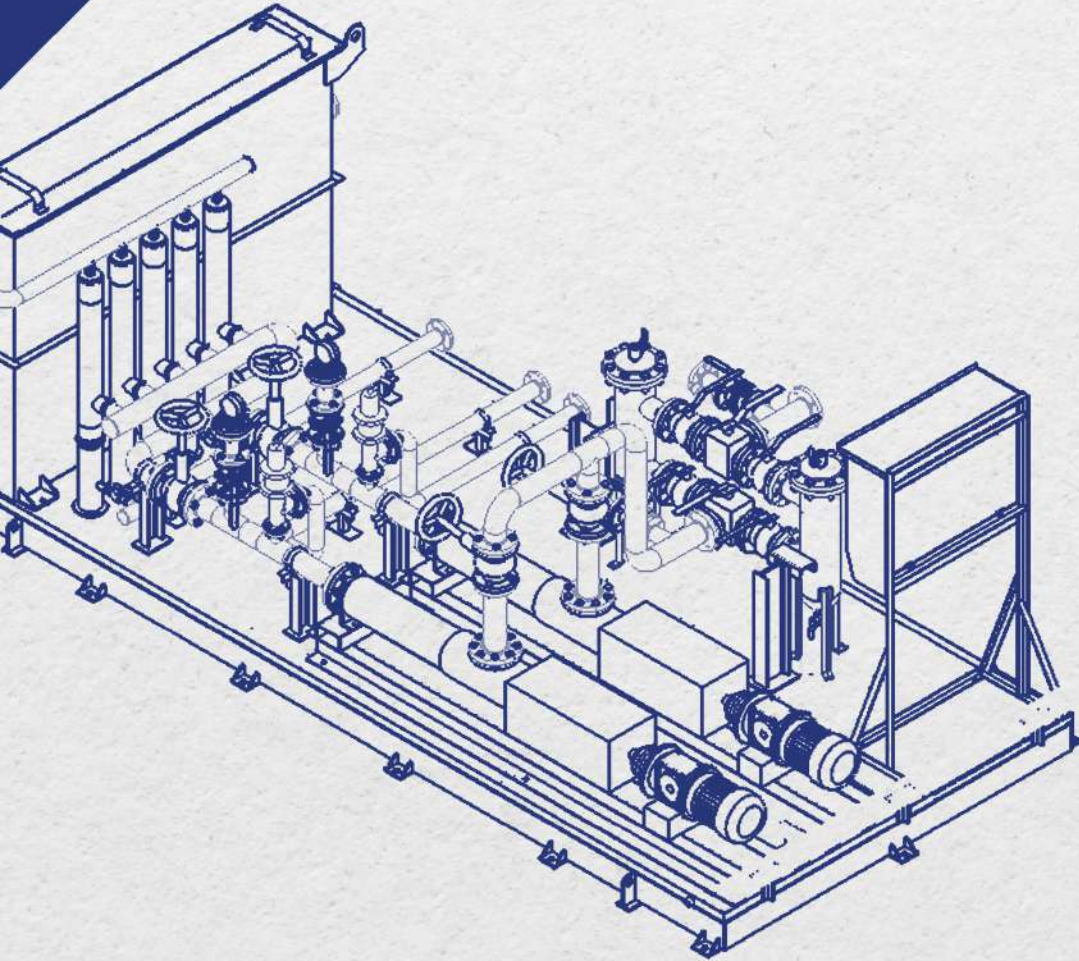
**HYDROCYCLONE
OIL WATER
SEPARATOR**
An Oil Water Separator System



HYDROCYCLONE OWS

Hydro cyclone oil separators operate on the process where oily effluent enters the cyclone chamber and it spun under extreme centrifugal forces up to 1000 times the force of gravity. Hydro cyclone system separates the oil and water, based on the density difference. To do this the oily wastewater is pumped tangentially into the separator which forms a powerful vortex and huge centrifugal forces. This squeezes the lighter oil droplets into the center of the vortex.

Two streams are generated: Treated water ready for discharge or reuse, and the separated oil for storage and disposal. The heavier water phase is forced outward towards the cyclone wall where the lighter oil phase migrates towards the center core. The separated oil is discharged from one end of the cyclone whereas treated water is discharged through the opposite end for further treatment, filtration or discharge.



ABOUT PROBLEM



High ppm of oil at the Outlet

Traditional oil separators operate within the range of 40-60 microns of Oil, indicating their effectiveness in capturing and separating oil particles of this size from water.



Bulky & Large Size

Traditional Oil Water Separators are characterized by their large physical footprint, occupying considerable space in industrial settings. This substantial size may pose challenges in installations.



More number of passes

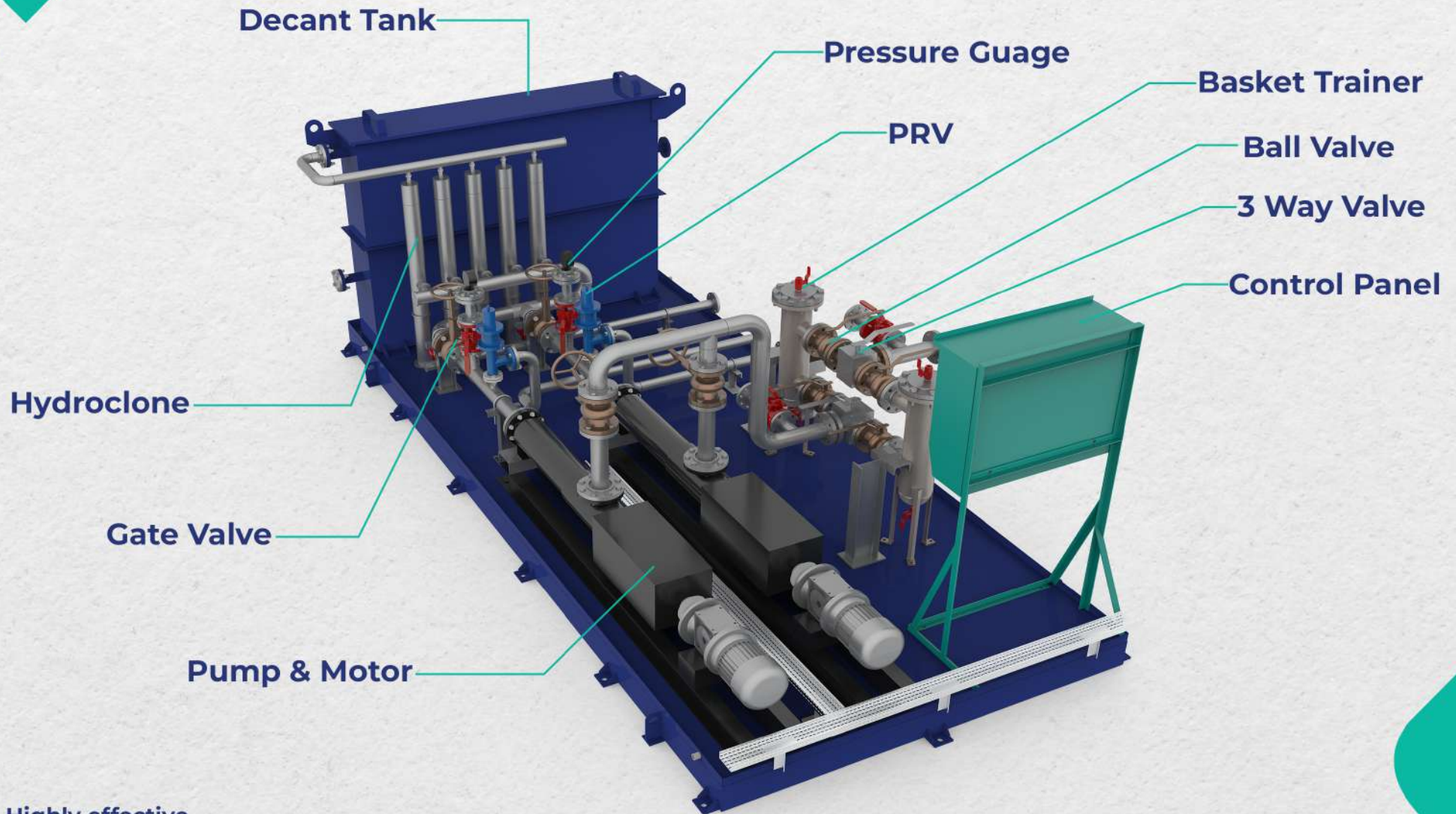
Oil-contaminated water undergoes a multi-chambered process to achieve an outlet concentration of less than 15 parts per million (ppm), ensuring effective oil separation and compliance with environmental standards



Maintenance

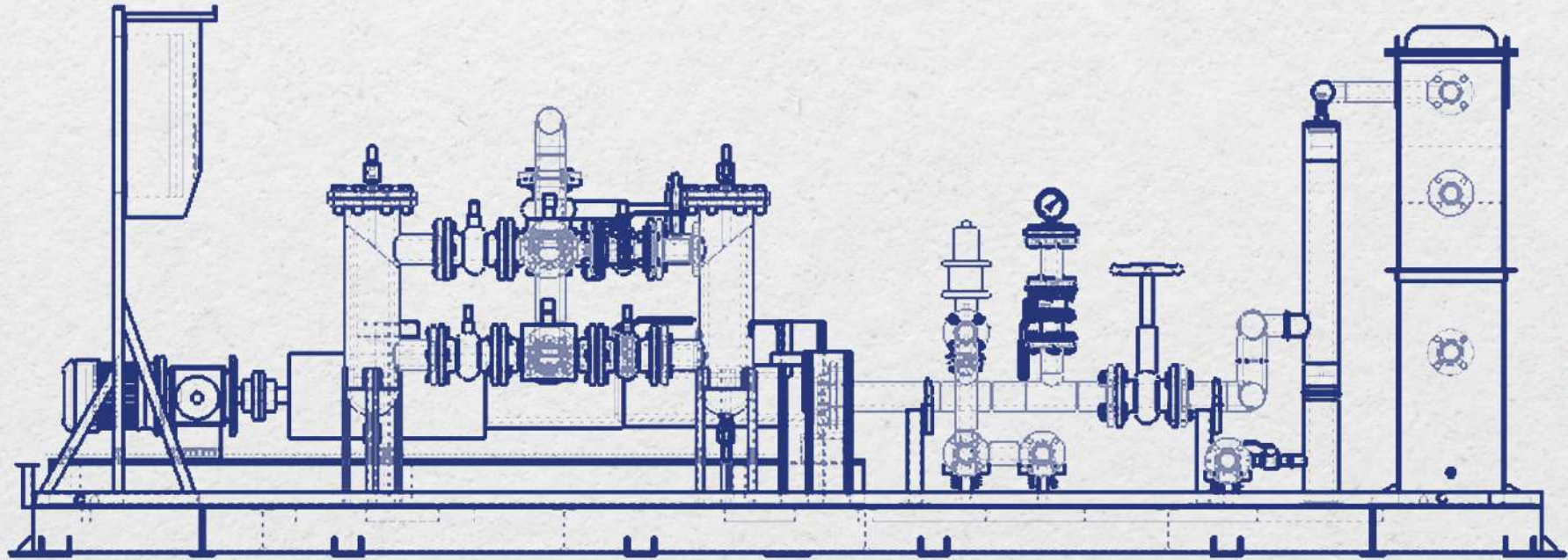
Oil-contaminated water undergoes a multi-chambered process to achieve an outlet concentration of less than 15 parts per million (ppm), ensuring effective oil separation and compliance with environmental standards

OUR SOLUTION



- ✔ Highly effective.
- ✔ Compact in size(Up to 90% smaller than traditional separator system)
- ✔ Low maintenance(No moving parts means lower maintenance requirements).
- ✔ Can remove oil droplets between 10-15 microns.

MODEL SELECTION MATRIX



MOC	OIL REMOVING SYSTEM	STRAINER TYPE	PUMP TYPE	CONTROL PANEL	INSTRUMENTS
SS 304	Weir Skimmer	Decant tank, Basket Strainer with Ball Valve	Pump	FLP	Differential Pressure Gauge
SS 316	Drum Skimmer	Decant tank, Basket Strainer with Butterfly valve	Progressive cavity pump with Gate valve	NFLP	Pressure Gauge
	Rotary pipe Skimmer	Decant tank, Basket Strainer with Three way valve	Progressive cavity pump with ball valve		Flow switch
	Adjustable Rotary pipe Skimmer	Decant tank not applicable	Progressive cavity pump with butterfly valve		RTDS
	Disc Skimmer		Progressive cavity pump with Diaphragm valve		

For custom sizes, please contact our sales team, sales@potential.net.in



📍 Potential Engineering
Plot No- B-45, MIDC Rd, behind Reliable Cloud City, Digha Naka,
Yadav Nagar, TTC Industrial Area, Airoli, Navi Mumbai - 400708,
Maharashtra

✉ sales@potential.net.in
🌐 www.potentialengineering.com
☎ +91 8591948730 / +90 8104984831 / +91 8104984832