



MOTLEY GROUP
GLOBAL INDUSTRIAL SOLUTIONS

COMPANY & SERVICES BROCHURE

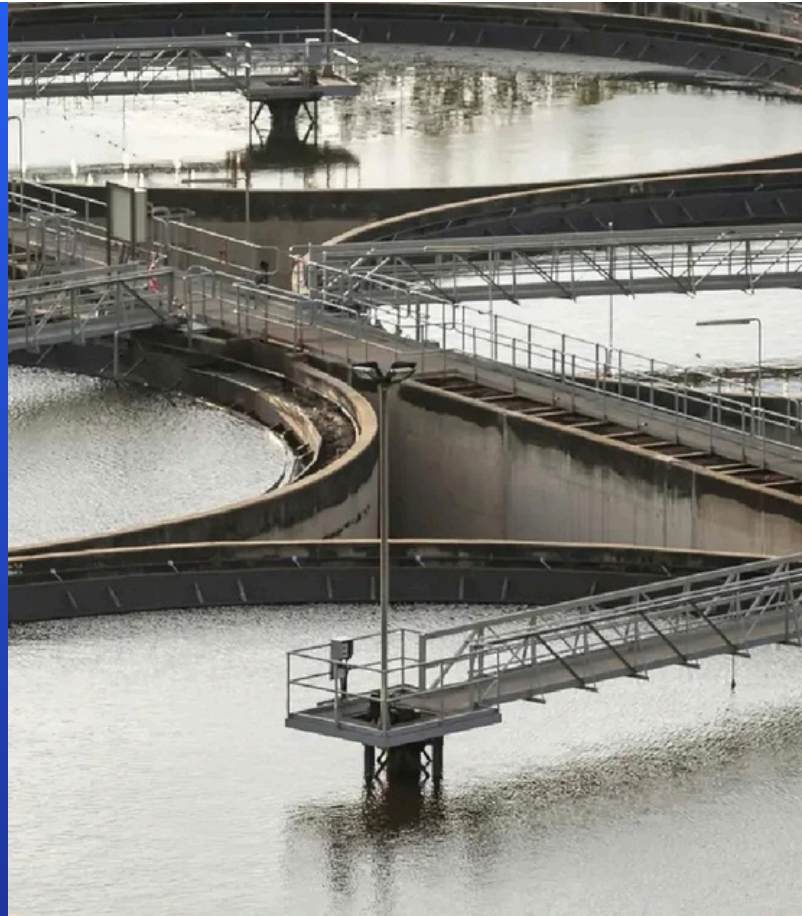




ABOUT US

Motley Group empowers industrial infrastructure with reliable engineering, predictive safety audits and automated statutory workflows.

From water treatment plants to AI-based fire detection and compliance paperwork, we handle it end to end so you can focus on running your business.



WE CARE

Motley Group is committed to environmental sustainability, industrial safety excellence, and empowering communities through responsible engineering solutions.

1500+ Industrial Clients

100% Statutory Compliance

24/7 Remote Telemetry

Trusted by Top companies and Brands



And Many More

Products & Water Solutions

CUSTOM ENGINEERED EQUIPMENT

Turnkey process water treatment and industrial wastewater management systems, designed and installed by our own engineers.



Effluent Treatment Plants (ETP)

Chemical precipitation, primary settling and biological aeration plants for high-COD/BOD industrial discharge.

10 KLD Compact ETP

Ideal for small-scale operations, highly space-saving & skid-mounted for effortless mobility and seamless daily operations.

- ✓ Modular Plug & Play
- ✓ Commercial & Small Ind.
- ✓ Low Operational Cost

20 KLD Packaged ETP

Robust, modern skid-mounted design using advanced filtration like Multi-grade filters & Carbon beds. Best for medium complexes.

- ✓ Advanced Filtration
- ✓ Pre-tested and Skid Mounted
- ✓ Optimal COD/BOD Removal

50 KLD Industrial ETP

Heavy-duty, high capacity wastewater treatment system engineered for medium to large enterprises with intensive discharge needs.

- ✓ High volume capacity handling
- ✓ Biological Treatment (MBBR/SBR)
- ✓ Durable & Fully Compliant

120KLD - 5MLD & Custom

Huge scale environmental infrastructures spanning 120 KLD, 250 KLD to massive 5 MLD (Million Liters/Day) custom engineered to your layout.

- ✓ High-end industrial output
- ✓ Tailored ZLD / RO Technology
- ✓ End-to-End Civil & Erection



Sewage Treatment Plants (STP)

MBBR, SBR and compact MBR setups that recycle sanitary wastewater for cooling towers and flushing.

20 KLD Compact STP

Self-contained, portable, and skid-mounted. Crafted specially for residential blocks, commercial schools, and offices with less space. Uses automated MBBR process.

- ✓ MBBR Biological Process
- ✓ Skid-Mounted Setup
- ✓ Low Operational Friction

50 KLD Hotel STP

Underground/covered packaged models utilizing high-clearance MBR filters to recover clean flushing & garden water. Zero odor.

- ✓ Odor-Free MBR Filtration
- ✓ Direct flushing/irrigation reuse
- ✓ Saves backyard spaces completely

650 KLD Civil STP

Large, concrete tank installations specifically customized for big townships, tech parks, and robust mid-size municipal use. MBBR/SBR technology.

- ✓ Civil-Concrete Basin Tanks
- ✓ Automated MBBR/SBR Sequencing
- ✓ High-end Sludge Pressing System

2.5 MLD Mega STP

Huge-scale civil projects featuring multiple large aeration & SBR batch reactor basins with rotary scraper bridges for huge municipalities.

- ✓ Advanced Circular SBR / Activated Sludge
- ✓ Mega Flow Balancing PLC panels
- ✓ Environment/PCB Clearances Assist

Not sure which plant you need ? . Our engineers can visit your site, review your water and effluent load, and recommend the right treatment capacity and process, with statutory norms in mind.

Schedule a plant audit

✉ : contact@motleygroup.in

☎ +91 82992 88481



Zero Liquid Discharge Plants (ZLD)

Integrated Multi-Effect Evaporators (MEE) and ATFD crystallizers recovering over 98% clean water.

INDUSTRIAL KNOWLEDGE

Briefly, What is a ZLD Plant?

A Zero Liquid Discharge (ZLD) Plant is an advanced wastewater treatment system designed to treat, separate, and recover every single drop of industrial wastewater. Instead of safely discharging treated water, a ZLD plant processes effluent to a point where **no liquid waste leaves your facility**.

It transforms contaminated effluent into **95% to 99% Pure Recycled Water** (returned directly to factory processes) and **Dry Solid Salt/Crystals** (safely disposed of or sold as industrial-grade by-products). It is the ultimate, gold-standard closed-loop water system.

KEY OBJECTIVE

Eliminate toxic liquid discharge entirely while recovering reusable industrial-grade water and solid by-products.



Corrosion-Proof Metallurgy

We use high-grade Duplex Stainless Steel, Titanium, and Hastelloy to resist highly corrosive saline effluents.



Custom, Optimized Energy Design

Our integration of MVRE and waste-heat recovery keeps your daily operating expenditure (OPEX) extremely low.



Absolute Regulatory Compliance

Achieve hassle-free regulatory approvals from CPCB, SPCB, and international environmental frameworks with zero liquid fines.

Our Advanced ZLD Technologies

**1**

1. Membrane Concentration

Wastewater goes through Multi-Media Filtration and **Ultrafiltration (UF)** to remove suspended solids. It then faces multi-stage **High-Recovery Reverse Osmosis (RO)** membranes under pressure, concentrating TDS and recovering up to 80-85% clean water.

UF, NANO & HIGH-PRESSURE RO

**2**

2. Thermal Evaporation

Heavy concentrated brine is boiled in **Multi-Effect Evaporators (MEE)** under vacuum. We also integrate advanced **Mechanical Vapor Recompression (MVR/MVRE)** which reuses exhaust vapor heat, cutting utility/fuel expenditure by up to 60%.

MEE, MVR & THERMAL CONCENTRATION

**3**

3. Crystallization & Dewatering

The ultra-concentrated slurry enters a **Forced Circulation Crystallizer** to precipitate dissolved salts. An **Agitated Thin Film Dryer (ATFD)** and Centrifuges dewater the sludge, producing dry solid salt cakes ready for safe disposal or commercial sale.

FORCED CRYSTALLIZERS & ATFD

Engineered Plant Performance

100%

RESOURCE RECOVERY

Closed loop recycling returning pure permeate to boilers and production.

< 60%

UTILITY FUEL SAVED

MVR and thermodynamic compression lowering steam consumption.

Zero

ENVIRONMENTAL FINES

100% compliance with CPCB & state zero liquid discharge mandates.

Duplex SS

CORROSION PROTECTED

Titanium and Hastelloy materials designed for hyper-saline brines.

Water Treatment Systems



Industrial Reverse Osmosis (RO)

Custom multi-stage commercial and industrial RO systems designed to eliminate dissolved salts and silica.

Commercial RO Plants

Highly compact, space-saving, and skid-mounted systems tailored for hotels, schools, multi-story buildings, residential societies, shopping complexes, and healthcare facilities.

- ✓ Double Pre-treatment Vessels
- ✓ Skid-Mounted For Fast Mobility
- ✓ Built-in Pressure Meters
- ✓ Automated Low/High Cut-off

Industrial RO Plants

Heavy-duty, custom-engineered megawatt systems designed for manufacturing, boiler feed, power generation, chemical processing, pharmaceutical lines, and bottling setups.

- ✓ Multi-tier Membrane arrays
- ✓ PLC / SCADA Automated Control
- ✓ AISI Stainless Steel piping
- ✓ Energy Recovery Devices (ERD)



Industrial Water Softeners

Automated ion-exchange softening plants that prevent limescale build-up inside cooling towers and boilers.

2 KLD Home Softener

Compact, whole-house automated softeners designed to sit beside balcony pipelines, parking sheds, or utility yards. Best for apartments, villas, and private residences.

- ✓ Vessel: 0844 / 1054 FRP Size
- ✓ 25L to 40L High Capacity Resin
- ✓ 50L Brine Tank Included

5 KLD - 10 KLD Commercial

Sturdy, dual-vessel systems fitted with automatic control valves and brine regeneration to support schools, hotels, hospitals, and laundry plants.

- ✓ Vessel: 1252 / 1465 FRP Size
- ✓ 60L to 100L High-Capacity Resin
- ✓ Auto / Manual Multiport Valve

25 KLD Industrial Softener

Huge multi-vessel systems fitted with heavy-duty PLC panels, flow meter control, and corrosion-resistant piping for boiler feeds and cooling towers.

- ✓ Vessel: 1865 / 2472 FRP or MSRL
- ✓ 250L to 500L Industrial SAC Resin
- ✓ 300L - 500L Heavy Brine Tank

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THE CHEMISTRY OF HARDNESS

Understanding Water Hardness

Water is a universal solvent. As it percolates through soil and rock, it dissolves natural minerals, mainly **Calcium Carbonate** and **Magnesium Carbonate**. High concentrations of these divalent ions cause severe scale buildup.

HARDNESS CLASSIFICATION	PPM (MG/L)	IMPACT LEVEL
Soft Water	0 - 60	Perfectly Safe
Moderately Hard	61 - 120	Minor scaling & stains
Hard Water	121 - 180	Scaling, low lather
Very Hard Water	180+	Clogged pipes & boiler failure

KEY OBJECTIVE

Completely replace scale-forming divalent minerals with soft, non-scaling ions.

Upgrade Now: With Motley Vision AI



Under 5-Second Trigger

Traditional smoke detectors in high-ceiling warehouses can take 3 to 5 minutes to trigger. Vision AI detects flame patterns and rising smoke within seconds of ignition.

Zero CapEx CCTV Retrofit

No new sensors or ceiling conduits. Connect our edge-processing box to your existing Onvif / RTSP IP cameras and start monitoring high-risk zones immediately.

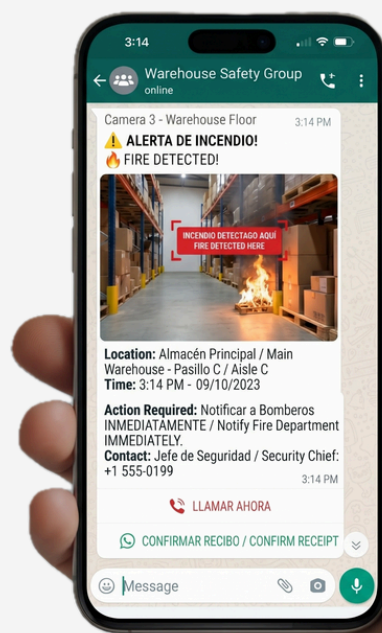
Facility Safety Violations

Get automatic alerts when fire exits are blocked, extinguishers are moved, or workers are not wearing required PPE in hazard zones.

Instant WhatsApp Alerts

Real-time flame alerts with false-alarm suppression, sent straight to your safety manager's phone.

Get **Alert** on **WhatsApp**



Try it first: 7-Day Pilot on 2 Cameras Experience real-time flame alerts, false-alarm suppression and instant WhatsApp notifications at zero initial risk.

Request your pilot

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24/7 IoT Monitoring & Digital Logbook Hub

Continuous ETP/STP Telemetry

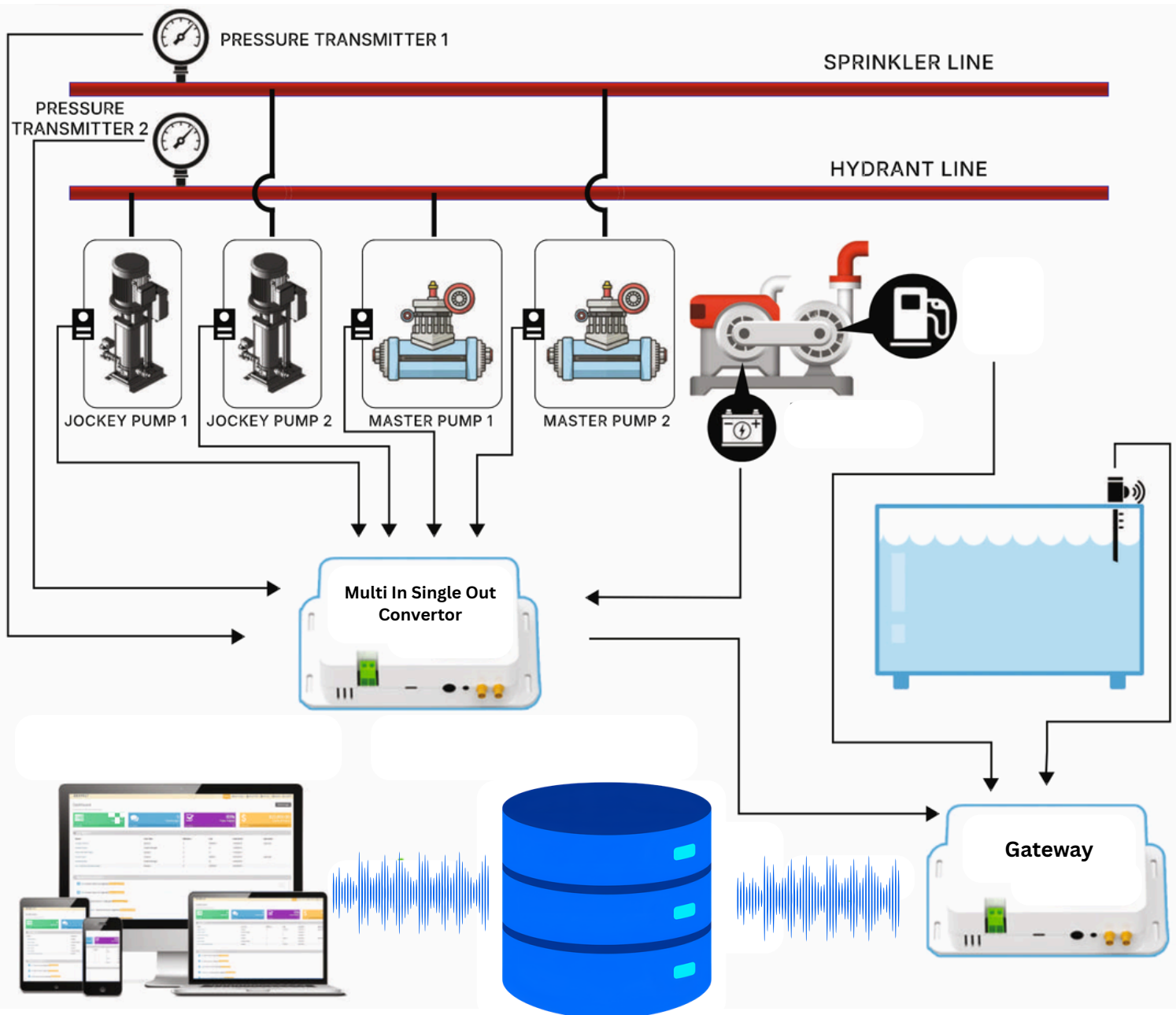
Online effluent quality and flow-meter readings synced with state pollution control servers.

QR-Enabled Digital Logbooks

Field staff record pump pressure tests, fire checks and thermography by scanning tags on site.

Vision AI Safety Stream

Automated surveillance feeds flagging optical smoke or exit obstructions in real time.



Services & Audit Consulting

Regulatory compliance management, life-safety audits and energy studies using certified instrumentation.

Turnkey Compliance Management

Statutory liaisoning, consent renewals (CTE/CTO), hazardous waste filings (Form 4/5) and show-cause notice responses.

Water & Effluent Testing (ETP/STP)

NABL-calibrated analysis of COD, BOD, TDS, TSS and heavy metals for solid evidence during inspections.

Fire Protection & Installation

Fire safety audits, certified hydrant and sprinkler network design, and statutory Fire NOC procurement.

Fire Safety AMC with Digital Logbook

QR-tagged maintenance contracts replacing physical registers with cloud-auditable records of pump and valve tests.

Thermal, Electrical Safety & Power Quality

Level-3 thermography hotspot scanning, power harmonics analysis and APFC optimisation during active production.

Electrical Safety AMC with Digital Logbook

Preventive maintenance tracking and digital health records for switchgear, transformers and distribution panels.

Industrial Safety Audit

Mandatory workplace reviews under the Factories Act: machine guarding, PPE compliance and chemical handling hazards.

Industrial Energy Audit & Efficiency

BEE-standard plant audits identifying thermal heat losses and motor inefficiencies to cut monthly electricity bills.

Carbon Footprint & GHG Assessment

Scope 1, 2 and 3 emissions accounting, sustainability roadmaps and baseline documentation for export vendors.

Power Safety & Electrical Risk Assessment

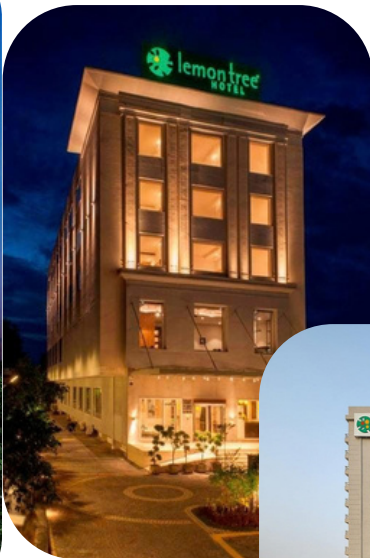
Arc-flash calculations, short-circuit validation, earth pit testing and human contact protection audits.

Testing & Commissioning (Electrical & HVAC)

Thermal duct balancing, CFM tests, smoke damper checks and DG synchronisation before facility handover.

Building Energy Audit

Energy benchmarking for hospitals, hotels and shopping malls to eliminate wastage in central chillers and pumps.



Audited by Motley Group



Let's Talk About Your Facility

Motley Group

Global Industrial Solutions provider delivering statutory compliance, water engineering and predictive AI safety systems.

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 : contact@motleygroup.in

 : www.motleygroup.in

 : [@motleygroup.in](https://www.instagram.com/motleygroup.in)

 : [@motleygroup_in](https://twitter.com/motleygroup_in)

 : [Motley Group](https://www.linkedin.com/company/Motley Group)

 : Headquarter | Industrial Area, Panki / Dada Nagar, Kanpur (UP)



Book a plant audit or a 7-day Vision AI fire safety pilot today. Our team will get back to you promptly