

COOLDECK Industries Private Limited

Has over **40 years of expertise** in water and wastewater technologies. We produce high-quality plastic products for various of industrial, commercial, and consumer applications.

**Water & Waste
Water Group**

**Cooling
Towers Internals**

**Business
Verticals**

**Polymer
Sheets**

**Building
Products**



Vision

Leader in plastics application technology through smart customer interaction and R&D.



Innovation

Design new and improve existing products using modern technologies and top-quality materials.



Process

Adhere to strict quality control and international standards.

CDIPL Water Technology Group designs and manufactures world-class efficient water/wastewater treatment systems and products. We can help with system design as well as during commissioning of WWT plants to ensure that committed outlet parameters are met.



Application Verticals

- Municipal Wastewater Treatment
- Industrial Wastewater Treatment
- Retrofit and Upgradation Projects



Application Areas

- Aerobic Biological Treatment
- Anaerobic Biological Treatment
- Sedimentation and Clarification

Aerobic Biological Treatment

Moving Bed Bio Reactor (MBBR) systems

The MBBR system is based on Integrated Fixed Film Activated Sludge Process. The process uses free-floating media to house active biological cells, allowing simultaneous attached and suspended growth treatment processes.

COOLFloat Media Options

High Efficiency HDPE Media

CD-BF25 and CD-BF1K:

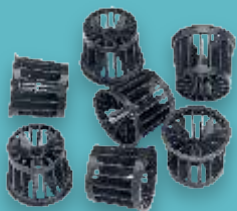
High surface areas from 650 to 1000m²/m³ for high bacterial growth and efficient biological nutrient removal like Nitrogen and Phosphorus along with BOD and COD.



Low Clogging PP Media

CD-BF16, CD-BF22 and CD-BF30:

Best & Easy pollutant sloughing.



Submerged Aeration Fixed Film (SAFF) Systems

The Submerged Activated Fixed Film Reactor (SAFF) is an aerobic treatment process that enhances conventional activated sludge systems.

COOLFill Media Options:

Cross-fluted Media

- CD-B19: 250 m²/m³, ideal for BOD, COD & nitrification.
- CD-B27: 108 m²/m³, for low-strength BOD removal.



Open flow Media

- CD-B27:33: 90 m²/m², for high BOD removal systems with minimal clogging.



Vertical-fluted Media:

- CD-B33:01: >140 m²/m³, for high-strength BOD treatment with minimal plugging.



Trickling Filters

Trickling Filters (TF) are among the oldest aerobic attached growth treatment processes, originally designed to reduce energy consumptions.

Cross-fluted Media:

CD-B19: 250 m²/m³, for BOD, COD removal & nitrification.

Random Media:

- CD-185: m²/m³, for high surface area for biological growth and open construction with a high void ratio to prevent clogging
- Made from UV-stabilized polypropylene, ideal for refineries and petrochemical sectors



Anaerobic Hybrid Reactors (AHR)

Anaerobic Digestion is a popular process for wastewater treatment as it results in the production of renewable energy in the form of methane and carbon dioxide rich biogas. Additionally the nutrient left after digestion can be used as fertilizer.

COOLFill Media Options



OpenFlow Media:

- CDB27:33: 90 m²/m², for high BOD removal systems.
- CDB27:53: 82 m²/m³ protected, >100 m²/m³ unprotected.



Vertical-fluted Media

- CD-B33 :01, CD-B53 :01: For high-strength BOD with high TSS, and continuous sludge sloughing.

Sedimentation and Clarification

Sedimentation is crucial for removing suspended, colloidal and sludge matters in water & wastewater treatment. Traditional clarifiers rely on gravity settling after coagulation and flocculation, requiring large footprints and long detention times

Overview:

- **Cross-fluted Media:**
- High concentration of settling surface area.
- Installed at 55° to 60° angles to aid settling of suspended solids.

Features:

- Proven design, improving conventional clarifiers.
- 90% smaller footprint than conventional sedimentation basins.
- Easy site installation.
- Increases basin loading rates.
- Requires a bottom support structure.

Settler Media Options

TS120 (Hexagonal Chevron): 11-13m²/m²,
120 x 44 mm, 1.5 cm hydraulic radius

TS135 (Hexagonal Chevron): 10-12m²/m²,
135 x 50 mm, 1.8 cm hydraulic radius



TS60 (Boomerang): 12-14m²/m²,
74 x 50 mm, 1.28 cm hydraulic radius



TS55 (Square): 7m²/m², 55 x 55
mm, 1.38 cm hydraulic radius



COOLPlates: PVC/FRP plates
thickness range from 2mm to 6mm

Applications



Primary and Secondary Settling



Industrial, Municipal and Potable
Water Treatment



Anaerobic Digesters



Thermal Power Plants

Major Client/Consultants:

L&T, Triveni, NTPC, ONGC, IOCL, WTE
Infra, Gharpure, Wabag, Adani, Bajaj
Power, Jain Irrigation, Toshiba, Geo Miller,
HMDA, DJB, PHED, Tecton, Ramky,
Rochem, Mega Eng., Reliance, Borosil, Ion
Exchange, Ovivo, Thermax, Ultratech,
NJS, TCE, BMRV, Aquatech & Many More

Global Presence



INTERNATIONAL

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Africa, Malaysia, Middle East



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