



P. N. INDUSTRIES



PRODUCT CATALOG

Powering Cleaner Water, Smarter Treatment.
Trusted Media Solutions for a Sustainable Future.



Welcome to Our Product Catalog

About Us

We are Leading Manufacturer of Bio-Pac Media for Waste Water Treatment Plants. Our media Includes different Shape and size according to requirement of our valuable Clients. We are having the world class manufacturing facilities to provide best international standard quality with timely delivery of material.

The range of media includes:

- **MBBR MEDIA/FAB MEDIA**
- **FLOWER MEDIA-4 “**
- **TUBE SETTLER MEDIA**
- **WHEEL MEDIA**
- **TRICKLING FILTER MEDIA**

These medias are widly used in Waste water treatment plants like Effluent Treatment Plant (ETP), Sewage Treatment Plants(STP), Bio Gas Towers.



MBBR MEDIA

FAB MEDIA



Benefits

MBBR media is widely used in STP, ETP, and WTP because it provides high treatment efficiency, large surface area for biofilm growth, low maintenance, compact design, and better removal of BOD, COD, and ammonia. It handles shock loads effectively, reduces sludge generation, saves space and operating cost, and improves overall water treatment performance.

- High surface area for biofilm growth
- High treatment efficiency
- Space-saving design
- Low maintenance requirement
- Long service life
- Cost-effective operation
- Easy retrofit in existing plants
- Better BOD, COD, and ammonia removal
- Reduced sludge generation

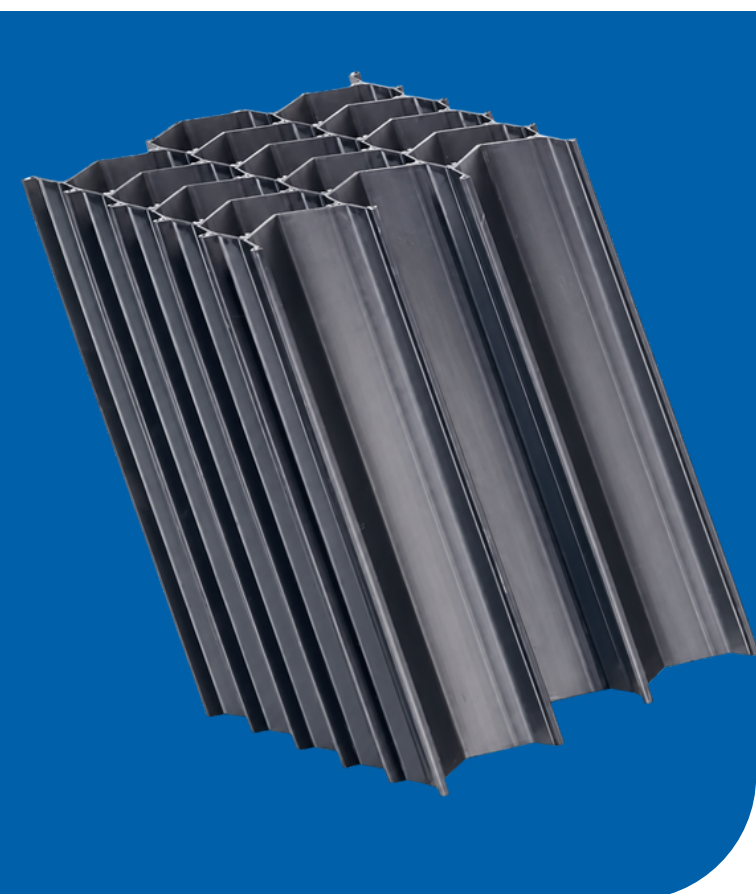
SIZE: 22 X 16 MM

ITEM NAME	MBBR MEDIA / FAB MEDIA
TYPE OF MEDIA	MBBR/FAB
MOC OF MEDIA	RECYCLED POLYPROPYLENE UV STABILIZED
HEIGHT, MM	16 MM (15 TO 16 MM)
DIAMETER, MM	DIA. 22 MM (21 TO 22 MM)
THICKNESS	1 MM (0.5 TO 1 MM)
SHAPE	CYLINDRICAL CORRUGATED RIGID WITH 24 EXTERNAL FINS & 6 COMPARTMENT (7 HOLES)
DENSITY GM/CC	0.93 TO 0.98 GM/CC
MEDIA FILLING RATE RANGE	25-55%
SPECIFIC WEIGHT (KG/M2) SURFACE AREA	0.37 KG/M2
PSA/TSA RATIO	75%
MAXIMUM OPERATING TEMP	80 DEGREE
LIFE SPAN	6-8 YEARS
PACKING	PACKED IN PP BAGS
STORAGE	MEDIA MUST BE STORED IN SHEDED AREA WITH ADEQUATE VENTILATION. AVOID DIRECT SUN LIGHT



TUBE SETTLER MEDIA

SIZE: 500 MM / 750 MM / 1000 MM

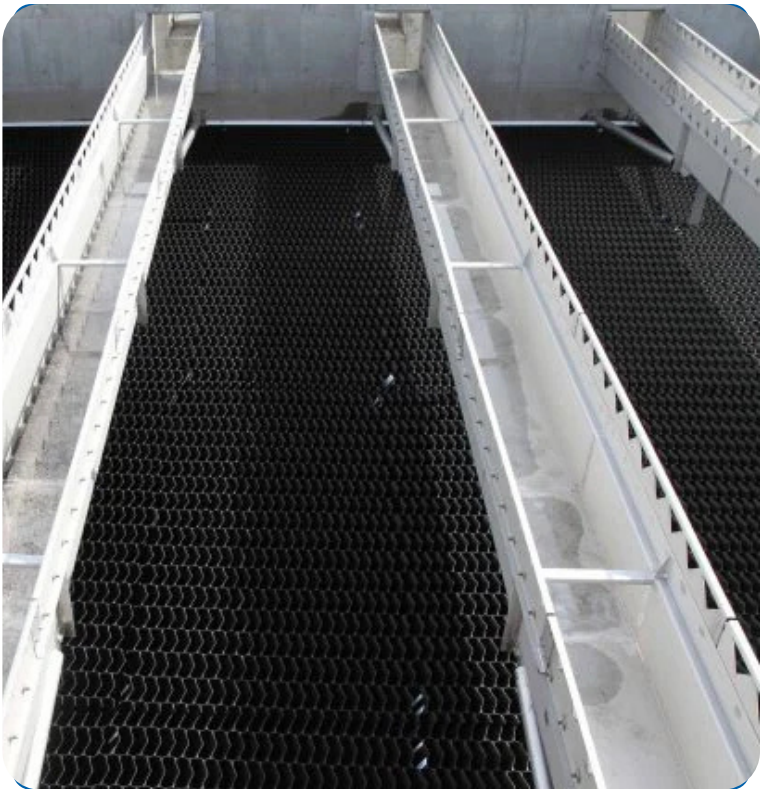


ITEM NAME	TUBE SETTLER MEDIA
TYPE OF MEDIA	TUBE SETTLER MEDIA-TSM
MOC OF MEDIA	UV Stabilized Virgin PVC Base
CROSS SECTION	Horizontal-120mm, AreaVertical-48mm
SHAPE OF MEDIA	Hexagonal (Chevron)Shape
MEDIA STRAIGHT HEIGHT/ MEDIA SLANT(AT 60 DERE) HEIGHT	750 MM / 600 MM 1000 MM / 850 MM 1150 MM / 1000 MM
THICKNESS	1.0MM (+ 0.1MM)
MAX OPERATING TEMP	55°C
TUBE FITTING	PLAN SETTLING AREA
STORAGE	MEDIA MUST BE STORED IN A COVERED PLACE WITH ADAQUTE VENTILATION

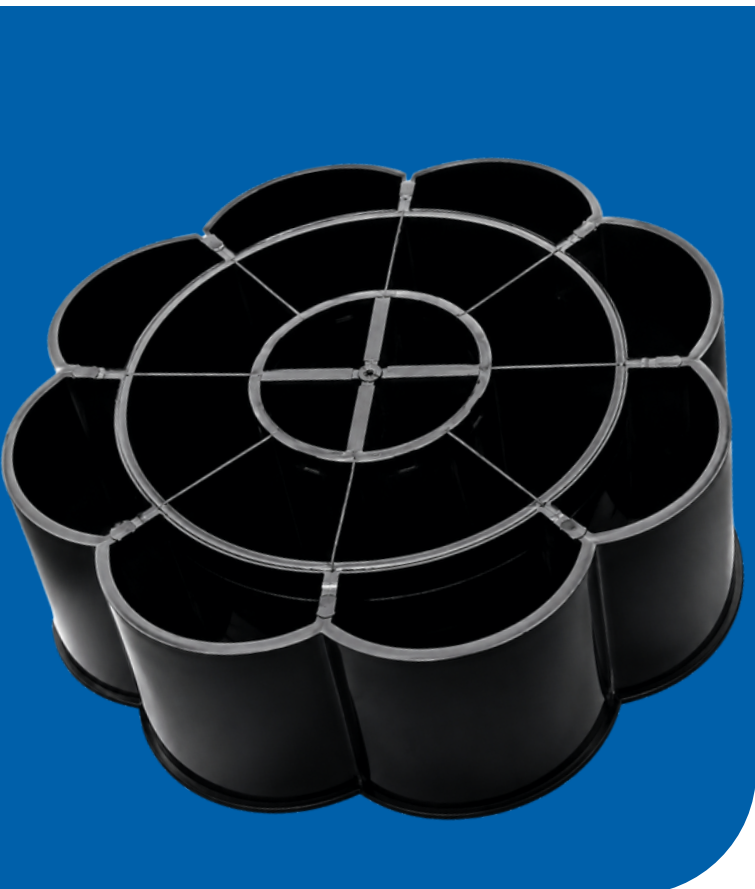
Benefits

Tube Settler Media is widely used in clarifiers, lamella settlers, WTPs, STPs, and ETPs to improve solid-liquid separation efficiency. Its inclined tube design increases the effective settling area, allowing suspended particles to settle faster and enhancing overall clarification performance. The media reduces tank size requirements, improves water quality, lowers sludge carryover, and provides a cost-effective and low-maintenance solution for water and wastewater treatment systems.

- Increases effective settling surface area
- Improves solid-liquid separation efficiency
- Enhances clarification performance
- Reduces suspended solids in outlet water
- Decreases tank size and footprint requirements
- Lowers sludge carryover and turbidity
- Durable, lightweight, and chemical-resistant



WHEEL MEDIA TRICKLING FILTER MEDIA



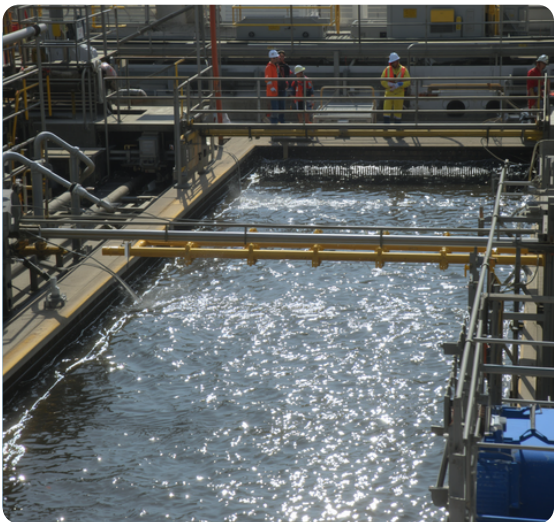
Benefits

Wheel media and trickling filter media are used in biological wastewater treatment systems to provide a large surface area for microbial growth, which helps in effective BOD and COD removal. These media improve aeration, enhance treatment efficiency, reduce clogging, and ensure smooth water flow in STP, ETP, and WTP applications. They are lightweight, durable, chemical-resistant, low maintenance, and help improve overall wastewater treatment performance.

- Provides large surface area for microbial growth
- Improves BOD and COD removal efficiency
- Commonly used in STP, ETP, and WTP plants
- Ensures proper water distribution and aeration
- Reduces clogging and maintenance issues
- Suitable for trickling filters and biofilm reactors
- Durable, lightweight, and chemical resistant
- Enhances overall treatment performance

SIZE: 180 X 50MM

ITEM NAME	WHEEL MEDIA /TRICKLING FILTER MEDIA/ FILL PAC MEDIA
TYPE OF MEDIA	FLUIDIZED BIO MEDIA
COLOUR	BLACK
MEDIA DIAMETER	180 MM
MEDIA HEIGHT	50 MM
MOC OF MEDIA	POLYPROPYLENE
NO OF PCS PER M3	450 Pcs/M3
MATERIAL DENSITY (SPECIFIC GRAVITY)	0.95 TO 1.05 GM/CC
SURFACE AREA/ UNIT BULK VOLUME	100 M2/ M3
BOD REMOVAL EFFICIENCY	70%- 80%
VOIDAGE	>95%
WETTINGRATE(MIN)	5.6M3/DAY M2 Of CSA
MAX OPERATING TEMP	80 °C
APPLICATION	BIO LOGICAL TREATMENT SYSTEM WITH TRICKLING FILTERS AND ANAROBIC/AEROBIC REACTORS.
STORAGE	MEDIA MUST BE STORED IN A COVERED PLACE (SHADED AREA) WITH ADEQUATE VENTILATION. AVOID DIRECT SUNLIGHT.



FLOWER MEDIA

SIZE:100 X 35 MM



ITEM NAME	FLOWER MEDIA
TYPE OF MEDIA	FLOWER MEDIA
MEDIA DIAMETER-100 mm	Dia : 98.00 to 102.0 mm
HEIGHT – 35MM WITH DOME – 50MM	Height : 33.0 to 36.0 mm With Dome : 47.0 to 50.0 mm
MOC OF MEDIA	POLYPROPYLENE
NO OF PCS PER M3	1 M3 =1990 nos (1980 to 2000 nos)
SURFACE AREA	250 M2/M3
MAX OPERATING TEMP	80 °C
STORAGE	MEDIA MUST BE STORED IN A COVERED PLACE(SHEDED AREA) WITH ADEQUATE VENTILATION. AVOID DIRECT SUNLIGHT.
MEDIA USAGE	TRICKLING FILTER/ANAEROBIC./SAFF REACTOR/BIO GAS TOWERS

Benefits

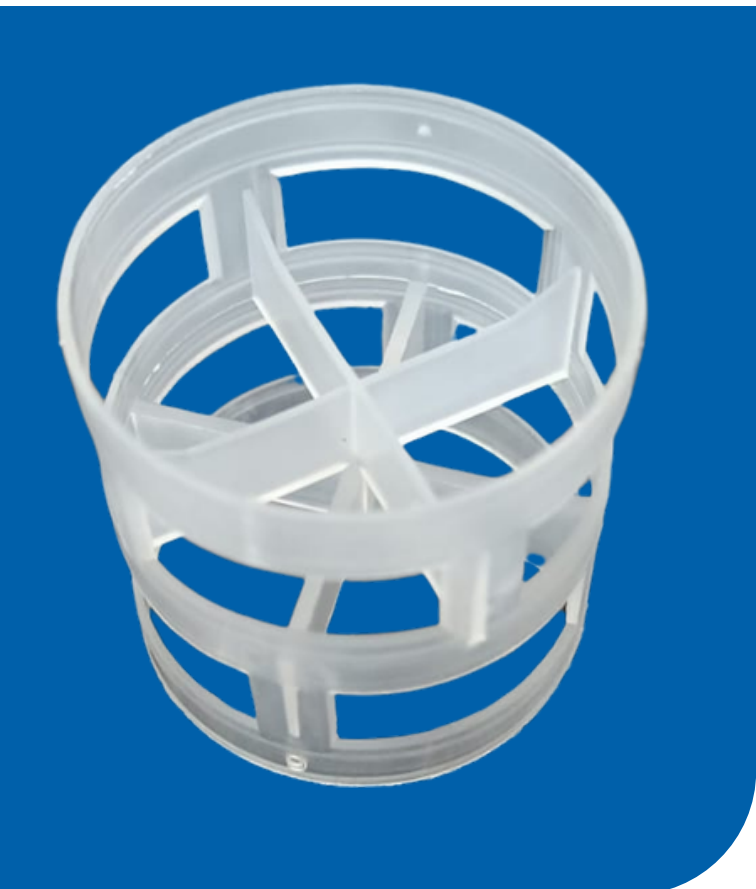
Flower Media is widely used in Trickling Filters, Anaerobic Reactors, SAFF Reactors, and Bio Gas Towers due to its high surface area for biofilm growth and excellent biological treatment performance. It helps improve BOD and COD removal efficiency, supports better aeration and water distribution, and ensures stable microbial activity. The media is lightweight, durable, chemical-resistant, low maintenance, and provides cost-effective operation with long service life in wastewater treatment applications.

- High surface area for biofilm growth
- Improves BOD and COD removal efficiency
- Enhances biogas generation performance
- Supports stable microbial activity in Bio Gas Towers
- Handles high organic wastewater load effectively
- Reduces sludge generation and maintenance
- Durable, chemical-resistant, and long-lasting
- Cost-effective solution for wastewater treatment systems



SIZE: 25 MM/38 MM/50 MM
75 MM/90 MM

PP PALL RING



Size MM	No of Pcs Per M3	Surface Area M2/M3	Free Gap Volume %
25 X 25 MM	51,000	210	88
38 X 38 MM	13,500	140	89
50 X 50 MM	6,500	110	93
75 X 75 MM	1,800	92	93
90 X 90 MM	1,200	85	93

Benefits

PP Pall Rings are widely used in scrubbers, packed towers, absorption columns, stripping towers, and wastewater treatment systems due to their high void ratio and excellent mass transfer efficiency. Their open-structure design promotes better liquid-gas contact, reduces pressure drop, and ensures uniform flow distribution. PP Pall Rings are lightweight, durable, chemical-resistant, and provide reliable performance in water, wastewater, and air pollution control applications.

- High surface area for efficient mass transfer
- Improves liquid-gas contact efficiency
- Low pressure drop and high void space
- Enhances absorption and stripping performance
- Ensures uniform flow distribution
- Chemical, corrosion, and temperature resistant
- Lightweight, durable, and long-lasting
- Cost-effective solution for packed towers



OUR VISION

At P.N. Industries, our vision is to become a globally recognized and trusted manufacturer of advanced water and wastewater treatment media by delivering innovative, high-quality, and sustainable solutions. We strive to support industries and communities in achieving efficient water treatment while contributing to a cleaner environment and a better future for generations to come

OUR MISSION

At P.N. Industries, our mission is to manufacture reliable and cost-effective products such as MBBR Media, Flower Media, PP Pall Rings, Tube Settler Media, and other water treatment components that enhance treatment efficiency and system performance. We are committed to maintaining the highest standards of quality, continuous innovation, timely delivery, and customer satisfaction while promoting environmentally responsible and sustainable water management solutions.



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