





The pigment Recovery and COD load reduction in effluent treatment plant

SUDARSHAN Chemical Industries Ltd. is one of the largest Pigment producer in India and have been prominent in global markets for over 60 years. Environmental compliance being focus, the customer was treating 1100 ppm pigments in effluent treatment plant until YCS Technologies Pvt. Ltd. suggested them to use Technorbital's GRAFIL Ultrafiltration technology to isolate pigments (COD).

CUSTOMER	SUDARSHAN CHEMICAL	
Location	Mahad Maharashtra	
Capacity	1320 m³/d	
Pigment Concentration	1100 ppm	
Commissioned	Jan 28, 2020	
Product	GRAFiL 6040 * 34 Nos.	
Construction	2 x 30 m³/h Module	
Filtration Mode	Cross Flow-10%	
Water Recovery	92%	
Product Recovery	99%	



Blue pigment - lab



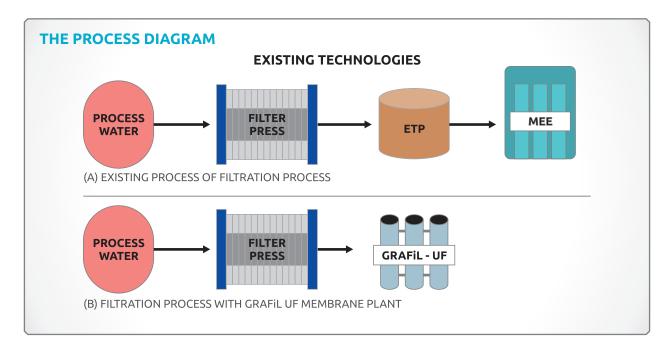




PROJECT DELIVERABLES

→ Water Recovery	 Product Recovery 	
 Energy Reduction 	→ Sludge Reduction	
Better Compliance	 Efficient handling of feed water quality upsets 	
 Reduced capital costs 	 Fiber ideally suited to meet stringent regulations 	

The target was to recover around 1.5 ton of pigment per day and also reduce the COD/BOD load because of the pigment on the Effluent Treatment Plant.



It is clearly visible that, in traditional / existing scheme two separate processes are employed for the lost product recovery and waste water treatment. But, application of GRAFiL - UF membrane plant can replace both requirements for product recovery and Effluent treatment.

PIGMENT QUALITY PARAMETER

PARAMETERS	INLET	OUTLET
Pigment	1100 ppm	22 ppm
pH Range	4 to 10 pH	4 to 10 pH
Pressure	1 to 2 bar	Up to 1 bar
UF Plant Recovery	99%	

KEY SUCCESS WITH GRAFIL UF

- Better cleanability due to PolyNorbit Polymer.
- It reduces the bio-Fouling tendency and algal development on the membrane surface and improves the performance.
- Reduce energy and chemical consumption.
- GRAFIL UF Plants are low in Capex as compared to traditional technologies.

TECHNORBITAL ADVANCED MATERIALS PVT. LTD.



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