



厦门美华敬良环保设备有限公司

福建省厦门市思明区湖滨南路 76 号 1404 室

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## Manohar Filaments Project

India Manohar Filaments is a textile dyeing company located in Panipat , India. Their clients are mostly multinational firms that require their wastewater to be up to good standards.

They produce different forms of labels, and also do some washing and printing in their production process.

Flow is 300 cubic meters per day.

COD coming in averages 1100 with high TDS and color issues.

Previously, Manohar treats their waste water by doing primary chemical treatment. They then go through aeration then filtration and tertiary chemicals again to treat their water. With this, they incur high costs and water is still not able to pass government and client standards.

We then retrofitted their existing waste water facility by just adding 2 rectangular aeration tanks to place our units. We got rid of primary chemical treatment and just started treating the water coming out of the anaerobic chamber. We greatly reduced odor in the facility aside from breaking down the COD and colors in our process. Note that we also got rid of all Sludge Handling in the plant.

After the Biocleaner System, water goes through the carbon and sand filters existing in the plant, and in rare cases a small dose of tertiary chemicals to get rid of remaining heavy colors as needed. Chemical dosing (ferrous chloride etc) is reduced by 90% with the conversion to Biocleaner system. This is aside from Zero Sludge and electricity savings enjoyed through our lift aerators.

Please see test results from Manohar Filaments:

Parameters	100 KL Tank	200 KL Tank	50 KL Tank (Underground)	Final Treated Effluent
Color	200	150	100	20
Odor	spetic	Spetic	Spetic	Mild
COD	619	329	281	72.3
BOD for 03 Days at 27C	223	128	103	21
pH	6.95	7.31	7.73	7.57
TSS	150	72	49	13
TDS	1235	1693	1869	1318
Silica	16.6	14.9	14.6	4.7
Calcium as Ca	22	25	28.2	19
Magnesium as Mg	13.4	20.1	31.2	22.8
Iron as Fe	6.25	2.14	2.35	0.67
Oil & Grease	24	22	9	0.6

# BioCleaner

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Treatment processing:



# BioCleaner

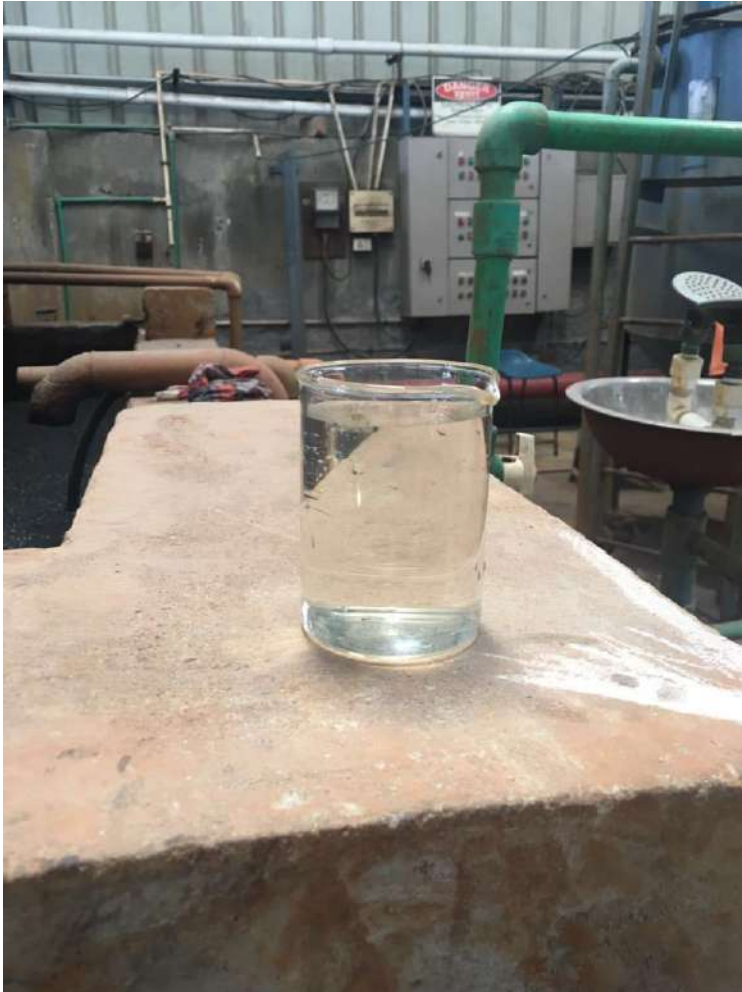
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After Biocleaner Treatment:



Before and After comparison