Case study :

Revamp of 500 KLD STP at Sharmanji Yarns Pvt Ltd.,Ludhiyana

TRANSCEND CLEANTEC PVT. LTD.

TRANSCHIP3.0 HIGH PERFORMANCE HIGH SURFACE AREA MBBR MEDIA



INSTALLATION AT – Sharmanji Yarns STP, Ludhiana

- INFLUENT PARAMETERS
 - 1. FLOW 500 KLD
 - 2. BOD 300 ppm
 - 3. COD 640 ppm
- Previous treatment : SAFF Media

Problems faced with previously used media

- BOD, COD was not as per NGT norms.
- Most of the media was broken aeration tank
- More sludge volume was being generated
- MLSS development was fragile.
- Unsatisfactory results on N & P removal.

Revamp Design with Transchip3.0

- BOD in : 300 ppm
- COD in : 640 ppm
- Nitrogen : 60 ppm
- Phosphorus : 40 ppm
- OIL & Grease : 30 ppm
- Available tanks : 100 kl x 1 nos
- Solution provided :
- Tanks used : 100 KL x 1 no
- HRT : 4.8 hours
- Media : 2.85 m3 per tank
- MLSS achieved : 3500 ppm
- F/M achieved : 0.3

Revamp with Transchip3.0 and results observed:-

BOD, COD are now being controlled efficiently

BOD of 4 ppm and COD of 31 ppm were being achieved.

 Transchip3.0 media is properly being retained in the aeration tank by proper media retention screens

 Sludge quantity is reduced considerably as most of the active biomass is in action on the high surface of the media

Results with Transchip 3.0 in action:-



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			TEST REPORT					
Test Report No .:	E(S)/20-21/082	Date:	14.09.20	14.09.2020		078		
Service No.	E(S)/20-21/082 (01-02)	Customer's Ref.	Sample Submitted By Customer on dtd. 08.09.2020 dtd. ref letter no. 01.09.2020					
Customer's name	and address:							
Sharmanji Yarn Vill. Lakhowal R Ludhiana Kind attn: Mr. R						5		
Sample Description			STP and Raw Water					
Condition of the sample received			O.K.					
Customer's sample identification No. (if any)			01- STP 02- Raw Water					
Quantity/number of samples			2 litre/ Two					
Test parameters			01- 02 pH, TSS, COD, BOD, Total Phosphorous					
Standard/Specification/Method followed			IS:3025, APHA 23rd.Edn					
Deviations (if any)			-					
Documents const	ituting this report (if any)							
Date of Receipt of Job Date of C		Completion of Job		Total Number of Pages				
06.09.2020 11		1.09.2020		2				
		1	EST RESULTS					
S. No.	'Parameters	Tes	t Method	Unit	Results			
		de la	·		01	02		

	0	2		01	02
1	pH ·	APHA 23 rd . Edn.4500-H*B	-	6.9	7.1
2	Total Suspended Solid	APHA 23". Edn.2540-D	mg/l	10	<10
3	Chemical Oxygen Demand (COD)	APHA 23 rd . Edn. 5220B	mg/l	12	<5
4	Biochemical Oxygen Demand for 3 days at 27oC (BOD3)	IS: 3025 (Part 44)-1993, Reaffirmed May, 2009	mg/l	<5.0	<5.0
5	Total Phosphorous as P	APHA 23rd. Edn. 4500-PC	mg/l	1.5	<0.2

.....end of report....

M.Agarwal **Technical Manager** (Authorized Signatory) SAI/FM/CSC-11

Thank You.....

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- Ph: 08669190129