

Case study :

Revamp of 100 KLD STP at EROS HOTELS,



TRANSCEND CLEANTEC PVT. LTD.

TRANSHIP3.0 HIGH PERFORMANCE HIGH SURFACE AREA MBBR MEDIA





INSTALLATION AT – EROS HOTEL STP, DELHI



INFLUENT PARAMETERS

1. FLOW – 100 KLD

2. BOD – 700 ppm

3. COD – 2000 ppm



Previous treatment : Activated Sludge Process



Problems faced with previously used media

- ▶ BOD, COD was not as per NGT norms.
- ▶ More sludge volume was being generated
- ▶ MLSS development was fragile.
- ▶ Unsatisfactory results on N & P removal.



Revamp Design with Transchip3.0

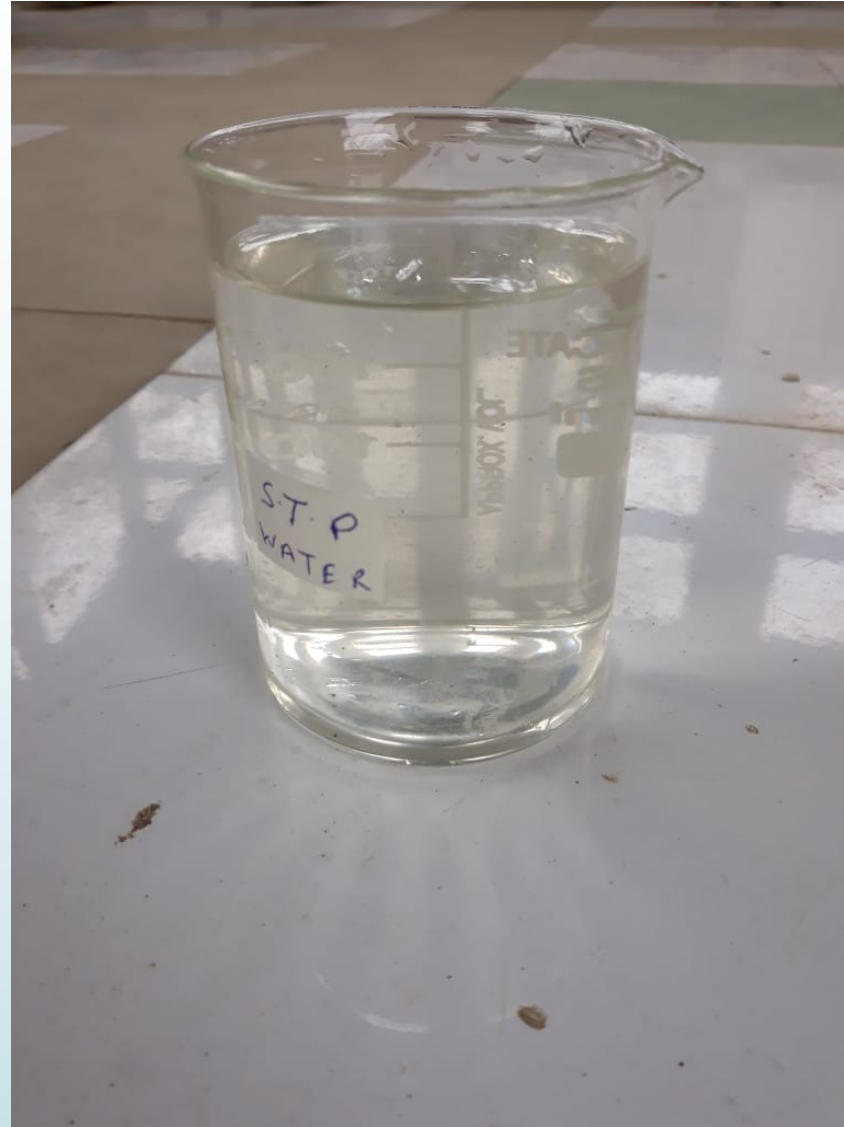
- BOD_{in} : 700 ppm
- COD_{in} : 20000 ppm
- Nitrogen – 130 ppm
- Phosphorus : 43
- OIL & Grease : 70
- Available tanks : 50 kl x 2 nos
- **Solution provided :**
- Tanks used : 50 KL x 1 no
- HRT : 12 hours
- Media : 2 m³ per tank
- MLSS achieved : 3500 ppm
- F/M achieved : 0.45



Revamp with Transchip3.0 and results observed:-

- ▶ BOD, COD are now being controlled efficiently
- ▶ **BOD of 8 ppm and COD of 44 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:-





Thank You.....

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