

Case study :

Revamp of 200 KLD STP at Venkateshwara
Hospital, Delhi



TRANSCEND CLEANTEC PVT. LTD.

TRANSHIP3.0 HIGH PERFORMANCE HIGH SURFACE AREA MBBR MEDIA



INSTALLATION AT – VENKATESHWAR HOSPITAL STP, DELHI

► INFLUENT PARAMETERS

1. FLOW – 200 KLD

2. BOD – 300 ppm

3. COD – 640 ppm

► Previous treatment : MBBR media used – PVA Gel



Problems faced with previously used PVA Gel media:-

- BOD, COD were not being removed properly
- Most of the media was overflowed downstream aeration tank
- After certain period of time, there was no media remained in the aeration tank
- More sludge volume was being generated



Revamp Design with Transchip3.0

- BOD_{in} : 300 ppm
- COD_{in} : 640 ppm
- Nitrogen – 70 ppm
- Phosphorus : 30
- OIL & Grease : 30
- Available tanks : 20 kl x 2 nos

- **Solution provided :**
- Tanks used : 20 KL x 1 no
- HRT : 2.4 hours
- Media : 1 m³ per tank
- MLSS achieved : 3500 ppm
- F/M achieved : 0.6



Revamp with Transchip3.0 and results observed:-

- ▶ BOD, COD are now being controlled efficiently
- ▶ **BOD of 1.98 ppm and COD of 11.54 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 Transchip3.0 in action:-



On-line monitoring results with Transchip3.0 in action:-





Thank You.....

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