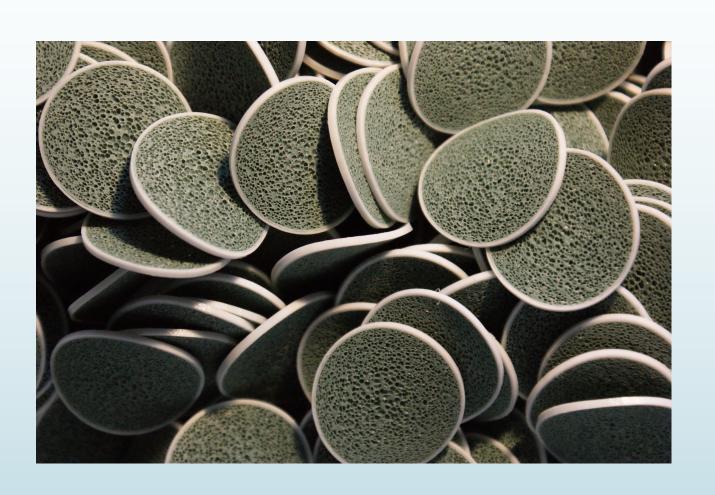
Case study:

Revamp of 200 KLD STP at Venkateshwara Hospital, Delhi

TRANSCEND CLEANTEC PVT. LTD.

TRANSCHIP3.0 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 overflown 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

- BODin: 300 ppm
- COD in: 640 ppm
- Nitrogen 70 ppm
- ► Phosporus: 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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