



WWTP PEPL

SURAT, INDIA

WHY DID THEY UPGRADE THE WWTP?

At present the PEPL CETP in Surat, India treats a total of 100MLD wastewater. As member industries are expanding their production capacities, the water demand as well as the wastewater disposal increases. The CETP will undergo two expansion phases that will eventually covers 200MLD water consumption.

WHY JÄGER UMWELT-TECHNIK?

With the combined Cleartec - SBR system, Jäger Umwelt-Technik offers a simple solution for expanding the treatment plant where no structural changes to the existing SBR tanks or new tank constructions are necessary. This solution optimizes the investment costs as well as the required onsite works.

WHICH RESULTS ARE ACHIEVED WITH IFAS AND DIFFUSERS?

Below graphic shows on the left influent and effluent data between May to July 2018, shortly before improving works started and on the right side data that were collected between November 2018 and January 2019, after improving works were finished. Before the expansion the SBR treatment reduced the COD in average to 426mg/l. This is a removal rate of ~55%. The combined Cleartec-SBR treatment achieve a COD reduction in average to 177mg/l which is a removal rate of more than 80%.

WWTP DATA

Type of WWTP
Textile Industry

Capacity
100.000 m³/d

Biological Stage
6 SBR Basins each
8352m³ of volume

Operation
Sequencing Batch Reactor

Treatment
COD Removal

Installation
360 Modules with Cleartec Biocurlz
> 2Mio. meters of Biocurlz
8.640 pcs. JetFlex[®] Tube diffuser TD65-2-1000

