Introduction:

Wastewater conveyance system is an important aspect of centralized wastewater treatment plant such as Common Effluent Treatment Plant (CETP) and large scale Sewage Treatment Plant (STP). Additionally, conveyance system plays major role where treated wastewater is recycled back to the industries.

Components/ Techniques involved in Wastewater Monitoring Systems:

Popular wastewater conveyance systems include:

- Tankers,
- Underground or above ground pipelines and
- Open channels.

While, for Sewage treatment plant all over the word, underground conveyance pipeline is always preferred, industrial wastewater conveyance system comprises any of three types mentioned above or sometimes it is combination based on characteristics and volume of industrial wastewater to be conveyed.

Brief Description of each component /Technique:

- Tankers
 - Generally employed where small scale industries are available.
 - Fixed capacity road tankers are employed to convey wastewater from industry to the treatment unit (CETP).
- Underground or above ground pipelines
 - o Generally used for large scale industries.
 - RCC or MS pipes are generally used.
 - Connects each industry with the CETP through network of pipelines
- Open Channel
 - Generally used for conveyance of treated wastewater for final disposal.
 - Open RCC structure.

Wastewater Conveyance System

Pros and Cons of Wastewater conveyance system:

Tanker	Underground / above ground	Open channels
	pipelines	
PROS		
Suitable for small scale	Suitable for transportation of	Suitable for
industries due to smaller	large volume.	transportation of
volume of wastewater		large volume
generation		
Easy control over inlet	Easy maintenance	Easy maintenance
quantity to incoming		
wastewater.		
	Important part of town planning	
	for sewage conveyance of entire	
	city.	
CONS		
Not suitable for large	Not suitable for heterogeneous	Require open land
industries	wastewater transportation	
Additional security measures	Requires detailed planning	Not secure against
such as vehicle tracking is	before installation such as future	illegal dumping of
required.	expansions.	untreated
		wastewater.
Frequent maintenance	Exceedingly difficult to upgrade	More suitable for
related to leakages and	if not planned properly	treated water
vehicle servicing		conveyance
Increase vehicular pollution	Geographical limitation i.e not	-
during frequent to &fro	suitable for hilly areas	
travel.		
	Sometimes required pumping	
	stations for better conveyance	