Telangana State initiatives to address pharmaceutical waste
Background:

- Telangana State is a hub for pharmaceutical industry and Hyderabad called as Bulk drug capital of India.
- Major API units are located in and around Hyderabad.
- 280 API units are established.
- The Pharma units are established since 1983.
- Due to lack of treatment technologies, industries discharged treated and untreated effluents.
A WP was filed in the Hon’ble Supreme Court on the Pollution caused by Pharma units (WP NO 1056 of 1990 – Patancheru Pollution case).

Several Directions were issued by SC which includes Crop damage Compensation, supply for drinking water, remediation of polluted water bodies and upgradation of treatments systems by units.

Reviewed by NGT and disposed the matter in 2017.

Two CETPs established at Patancheru (1990) and Jeedimetla (1983).

CETPs also were not meeting standards till 2009.
A article was published regarding AMR in Patancheru area by Swedish journal in 2009.

- Traces of Anti biotic residues noticed in the effluents discharged by the CETP and industries.
- A Joint Action Plan was prepared by TSPCB and CPCB for implementation by member industries and CETPs
Measures Initiated:

- Issued directions to the Industries to segregate the effluents into LTDS and HTDS.
- Directions issued to CETPS to treat only LTDS effluents from member units.
- Initially, Instructed industries to establish treatment systems to treat HTDS in their premises.
- Issued directions to establish ZLD systems by industries generating effluents more than 25 KLD.
CETPs upgraded the treatment systems and meeting the Discharge Standards.

- CETP at Jeedimetla established HTDS treatment system in 2005 to cater small member units.
- 172 industries established ZLD systems.
- Installed OCEMS for continuous monitoring.
- The Outlet of CETPs connected to STP at Amberpet (339 MLD). Outlet is meeting standards.
- No residues of Antibiotics noticed by PCB in the outlets of CETPs and units after 2010. Outlets of CETPs are monitored.
Process inorganic wastes and inorganic wastes (salts) derived out of wastewater treatment are disposed off to TSDF as per norms

- Organic solid and liquid wastes having calorific value are disposed off to Cement Units as per norms (for co-processing in cement kilns)

- Waste disposal through online manifest system.
Thank you