

## About Me & My Work

- Dr. Vijai Singhal, Former, Chief Environmental Engineer, Rajasthan State Pollution Control Board
- Presently, Director, Greenhub Systems Pvt Ltd, a Jaipur based company offering services in waste management, environmental compliance, environmental sustainability etc.
- My expertise are into hazardous and non-hazardous industrial solid wastes, municipal solid waste, biogas and bio-CNG, treatment and recycling of industrial and domestic wastewater, environmental governance, environmental compliance etc.
- I believe that we need to focus more on upstream measures for waste avoidance and waste reduction rather than only talking about waste recycling which has a limited potential to address the issue of waste decarbonization.

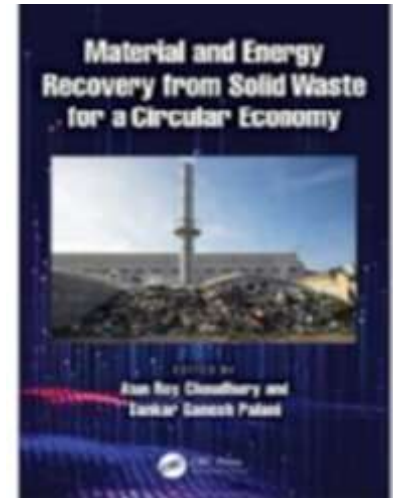


## What I Built or Solved

- Pioneered the concept of Integrated Resource Recovery Parks or Integrated Waste Recycling Park.
- First of its kind in India, waste recycling units of different types of wastes such as ELV, e-waste, plastic waste, different kinds of hazardous wastes etc. are co-located in one well defined industrial area near Jaipur so that waste generated by one recycler can be recycled by another member of the park.
- The Park will also have facilities for skill development, training, public awareness, material testing lab, R & D Labs etc. to make it an integrated facility for the waste recyclers.
- GIZ and EU have extended technical support for establishment of the Park.
- It promote industrial symbiosis by exchange of waste streams among the member units, optimizes recycling efficiencies, provides entire eco-system required for recycling at one place and overall improves waste management.
- Such Parks can be set up in cities or at the regional level.
- It's an innovative concept in waste recycling. Presently, recyclers of various waste streams are located in different areas with little synergy in their operation. No common facilities for recyclers.

## The Impact So Far

- The Park is under development stage near Jaipur in 48 ha area. Environmental, economic and societal benefits are likely to be significant. Actual benefits can be measured once the Park becomes operational
- Many state government such as Madhya Pradesh, Telangana, Delhi etc.. have shown interest in setting up of similar Parks in their states.
- Published a book chapter
- Titled “ **Integrated Waste Recycling Parks- Bringing Circularity into Waste Management**”
- Book: “**Material and Energy Recovery from Solid Waste for a Circular Economy**”
- **Author: Vijai Singhal**
- **Publication Date: 2024/7**
- **Book: Pages: 25**
- **Publisher: CRC Press**



## Why It Matters to the Blue Cities Network

- Unscientific management of the solid waste is one of the principle causes of pollution in the rivers in urban areas.
- IRRP offers a scientific mechanism to promote efficient recycling by which we can reduce the quantum of waste being disposed in landfills or being disposed in illegal manner, especially toxic hazardous wastes.
- The concept is replicable in most of the cities and response from the various states is very encouraging.
- I can support any one who wishes to set up such Park in any of the state.
- Need to popularize the concept among various stakeholders. Also, there is need to develop national level guidelines for setting up of IRRP. We can do policy advocacy to request central government/various state governments to bring such guidelines.
- I can support in drafting the guidelines.