



**Hon'ble National Green Tribunal, Principal
Bench, New Delhi**

Presentation on O.A. No. – 606/2018

**Chief Secretary
Government of Goa**

2nd March 2023

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Context

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- O.A. No. 606/2018 was original dealt with various issues such as Compliance of Solid Waste Management, Bio-medical Waste Management, Plastic Waste Management, Pollution of River Stretches, Non-attainment cities in terms of air quality, Polluted industrial clusters, and illegal sand mining etc....
- However, as per Hon'ble NGT's order dated 31/05/2022, the said matter was limited to proceeding to two specific issues of Solid Waste Management & Sewage Management.
- Hon'ble NGT also directed “Chief Secretaries continue the monitoring and interact with this Tribunal periodically by video conferencing with the status of compliance in respect of each of the States/UTs on the subject of Solid Waste Management and Sewage Management .”
- Therefore, we are presenting Status & Measures taken for SWM and Sewage Management in Goa

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Solid Wastes in Goa – An Overview

Sr No	Particulars	Unit	Estimated Waste Generation
			State
1	Population	Nos	15,80,507
2	Total Quantum of Waste Generated	TPD	766

Gap Analysis of Solid Waste Management in the State of Goa

	Total Waste generation is 766 TPD	
		Total Waste Capacity
		766 TPD
1	Existing Capacity Muncipal Councils/Corporation	200
2	Existing Village Panachayat Treatmet Facility	35
3	GWMC Saligao Facility (250 TPD +20%)	300
4	GWMC Cacora Facility (100 TPD + 25%)	125
5	Village Panchayat MRF, GWMC Baling Stations etc.,	110
	Total Existing Capacity	770

Remediation of legacy waste dumps in Goa

1	Total Quantity of Legacy Waste	5,41,072 cum
2	Total Remediated Quantity	5,28,972 cum
3	Remediation in progress	12,100 cum

Remediation is on going and balance quantity of legacy waste at various sites will be completed by May 31st 2023. State Government has made necessary budget provision for remediation activities.

Integrated Solid Waste Management Facility – Saligao

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Integrated Solid Waste Management Facility at Cacora

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526 Success Story in Waste Management in Goa

- Setup Two Integrated Solid Waste Management Facility at Saligao and Cacora
- Average power generated from biogas from waste to electricity from Aug 2016 to Jan 2022 is 6200 units per day
- Average power generated from biogas from waste to electricity from Feb 2022 to Jan 2023 is 26,700 units per day.
- The inert going to landfill has reduced from 6.5% to 1.5% of incoming waste with improvement in process.
- The State of Goa has disposed approximately 1,86,400 tons of RDF to cement factories since 2013.

- Vide Order dated 20/08/2018 , in O.A No.606/2018 , the Hon'ble NGT , Principal Bench, New Delhi, the Hon'ble Court , highlighted the State of Goa's biomining initiative and integrated waste processing and management facility. Also brought to the notice that, successful models of Goa, Indore, Ambikapure and Udupi can be replicated in other States.

Sewerage Scenario In State of Goa

Sewage Generation according to Urban Population (year 2022) – 52.09 MLD

Details	January 2023
Operational STPs	10 STPs of 80.35 MLD
Utilized Capacity	47.37 MLD
Gap in Treatment (5.4 MLD STP being commissioned)	4.72 MLD
Under Construction STPs (For Rural & Coastal Areas)	4 STPs of 48.1 MLD

In the State of Goa, there is no gap in the sewage generation and treatment as “Conventional Septic Tank & Soak Pit Method is in place for sewage treatment and disposal”. In Urban as well as Rural areas Sewage Tankers are used for suction of sewage from septic tanks and then taken in nearest common STP for Treatment.

As per Goa Land Development and Building Construction (Amendment) Regulations, 2016 “ Sewage Treatment Plant is mandatory for residential complex having 50 flats / residential units and above”.

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Action Plan for Under Construction STPs (For Rural & Coastal Areas)

No. of STPs	Capacity (MLD)	Current Status	Timeline
2	22.5	Under Construction	May 2023
1	5.6	Under Construction	Dec 2023
1	20	Under Construction	May 2025
	48.1		