



ECOSTP[®] sewage to gold™

INDIA'S WATER CRISIS IN NUMBERS

600 mn No. of Indians who face high to extreme water stress

200,000 No. of people who die every year due to inadequate access to safe water

By **2030,** India's water demand is projected to be twice the available supply

6% Loss to GDP by 2030 due to water crisis

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Ranked 120 out of 122 in the global water quality index.

Nearly 80 percent of India's freshwater is used in agriculture

At the current consumption rate India will have only half the water it needs by 2030

The ECONOMIC COST-

Severe water scarcity will eventually lead to a 6 percent loss in the country's GDP.

"Decreases in water supply can disrupt agricultural production and industrial operations, resulting in inflation in food prices and declines in income for affected businesses and communities, while sparking social unrest,"

INDIA HAS A SERIOUS WASTE-WATER PROBLEM

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India- 1.38 billion Population.

Rural- 65% (900 million)

Urban 35% (483 million)

Wastewater Generation

Rural- 35% (39604 MLD)

Urban 65% (72368 MLD)

Urban Wastewater Treatment

Urban population is expected to increase by 40% by 2050

Current Capacity 28% (20,236 MLD) 7

72% of untreated wastewater

+ Planned

51%

49% of untreated wastewater

73% of Wastewater for Class I cities and Class II towns will remain untreated.

Urban population is expected to increase by 40% by 2050

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THE PROBLEM COULD BE A SOLUTION



Wastewater is a viable water resource for building a water-secure future.

- 80% of untreated wastewater from 110 top cities can meet 75% of the industrial water demand.
- Sludge from treated wastewater can serve 3 mn hectares of land, reducing usage of fertilizers by 40%.

Benefits of Safe Reuse of Treated Wastewater (SRTW) over untreated water-

- · Better groundwater quality- It curbs soil degradation and groundwater contamination.
- · Reduces human health hazards from contaminated water & consuming food grown from untreated water.
- It can replace or supplement the groundwater and curb its over-extraction for irrigation.
- Reuse include industries, agriculture, toilet flushing, aquifer recharge, construction etc.

Wastewater remains an "untapped" and "undervalued" resource.

Much of the wastewater currently re-used is inadequately treated or even untreated due to multiple issues.

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India- 1.38 billion Population. Rural- 65% (900 million) Urban 35% (483 million)

Wastewater Generation Rural- 35% (39604 MLD) Urban 65% (72368 MLD)

Urban Wastewater Treatment

Urban population is expected to increase by 40% by 2050

Current Capacity 28% (20,236 MLD) 72% of untreated wastewater

+ Planned 51% **49% of untreated wastewater**

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WASTE-WATER TREATMENT PROBLEM

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70 per cent of Indian sewage treatment plants dysfunctional: Prakash Javadekar

THE ECONOMICTIMES = SECTIONS ETAPPS V ENGLISH V E-PAPER ET PRIME V

Through his recorded video message at "Wastech", Javadekar called for better solutions to tackle problems related to waste management in India.



Through his recorded video message at 'Wastech',

GANDHINAGAR: Union Minister Prakash Javadekar today said that 70 per cent of all sewage treatment plants in India do not work due to high running cost.

A+ 🖶 🖂 🕽

Through his recorded video message at 'Wastech', an international summit on waste management organised at Mahatma Mandir here today, Javadekar called for better solutions to tackle problems related to waste management in India.

70 per cent of all sewage treatment

- 36% STPs do not comply with the PCB norms (CPCB assessment of 1093 STPs).
- Plant efficiency utilized 66%

Key factors affecting efficiency of treatment

- · Improper plant design.
- Dependence on Skilled Operators.
- High Treatment Costs.
- · Lack of maintenance.
- · Limited Life.

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Sustainable Solutions for STPs

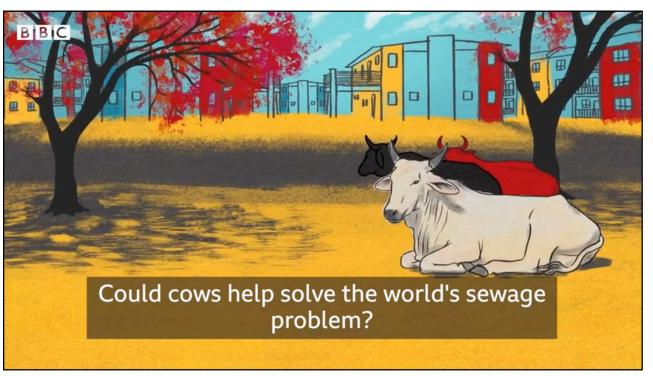


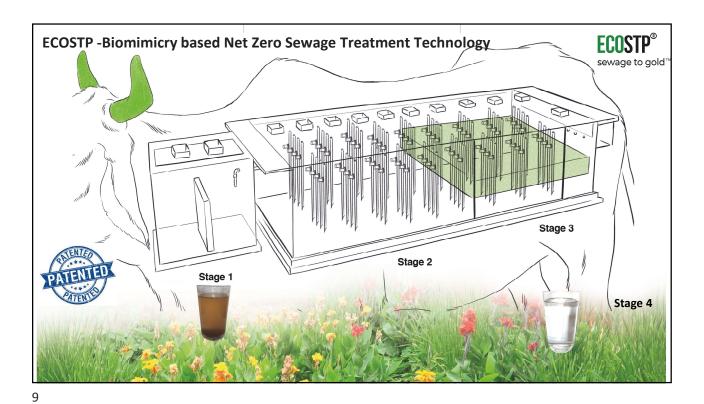
Nature-based Solutions

- Living solutions inspired by and using nature.
- Designed to operate in a resource-efficient and adaptable manner., with low inputs of energy and chemicals. (Resource Efficiency)
- Mimic natural processes in urban landscapes -use plants, soil, bacteria, and other natural elements and processes to treat wastewater.
- Cost-effective, energy efficient, low impact, simple and environmentally friendly.
- They preserve energy, labour, and materials. And are Designed for durability, reuse, remanufacturing, and recycling. (Circular Economy)

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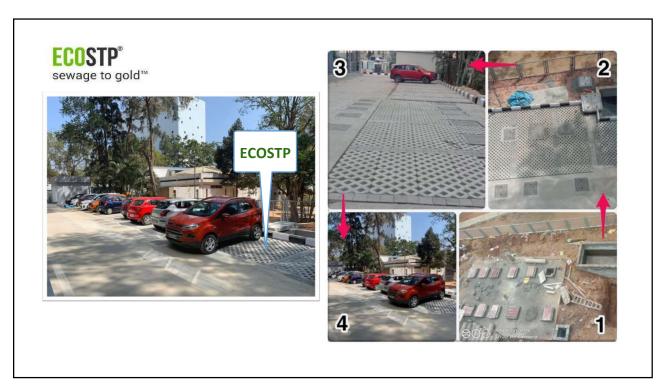




ECOSTP° A Sustainability start-up treating sewage without using any power, operators sewage to gold™ or chemicals. **ECOSTP** has no moving parts. • 70% of Indian sewage is untreated !!! Problem • Treating Sewage is expensive (Rs 16 to 32 Rs per KL) as the conventional STPs use lots of power and chemicals • ECOSTP sewage treatment technology treats sewage at Rs 2 per KL. Solution • The product is a replica of a cows stomach based on bioengineering concept. **Impact Achievements** Selected by United Nations as a Best Practice 3 Billion litres of sewage reclaimed to good water 5500 MWH power saved Featured by BBC 3 Patents Granted 4500 tonnes of coal saved 265 plus clients across 25 States **DECATHLO** Customer profile: 10







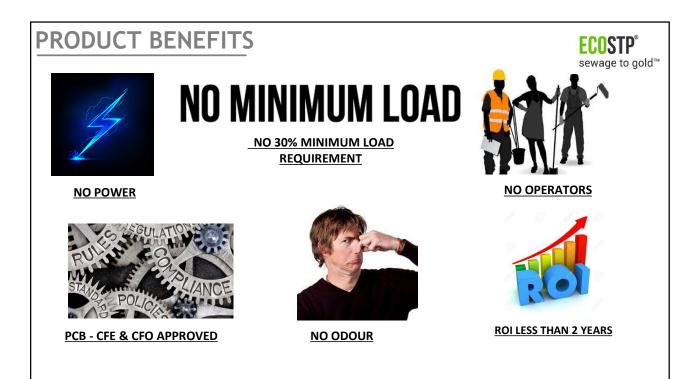


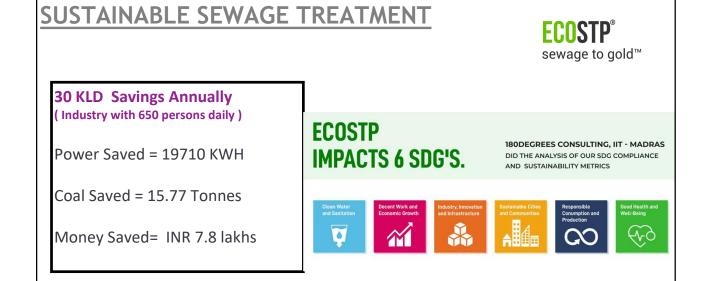




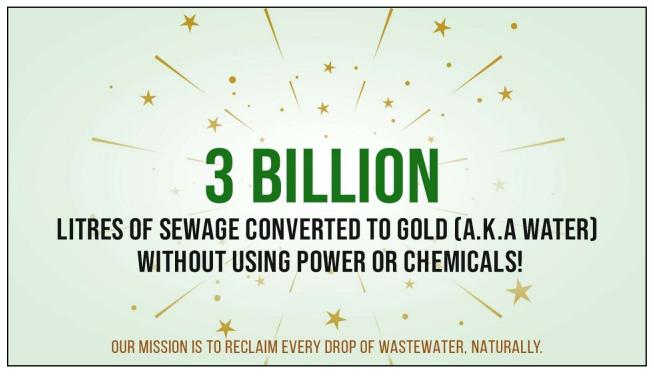














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