



Carbon Footprints



PARTICULARS:

- ZENITH INTRODUCTION
- CARBON FOOTPRINTS
- IMPORTANCE OF CARBON FOOTPRINTS
- ZENITH'S INITIATIVE IN MITIGATING THE CARBON FOOTPRINTS

ZENITH INTRODUCTION:

- Established in 1965
- Leading manufacturer & exporter of industrial rubber products
- Government-recognized export house

INFRASTRUCTURE & CAPACITY:

- Advanced infrastructure
- 90 tons/day rubber compound production capacity
- 4 Intermix, 4 calendar, 30 Rotocure lines, 8 press lines

COMMITMENT:

- Quality excellence
- Customer satisfaction
- Industry standards compliance

CARBON FOOTPRINT:

A carbon footprint refers to the total amount of greenhouse gas (GHG) emissions, primarily carbon dioxide (CO₂), associated with an individual, organization, product, or activity. It encompasses emissions from various sources, including:

1. Energy consumption (electricity, fuel)
2. Transportation (cars, planes, trucks)
3. Industrial processes (manufacturing, production)
4. Agriculture (livestock, fertilizers)
5. Waste management (landfills, incineration)



IMPORTANCE:

- Mitigates climate change
- Reduces air pollution, acid rain, and ecosystem disruption
- Conserves resources and promotes energy efficiency
- Saves costs through energy efficiency and waste reduction
- Ensures regulatory compliance
- Enhances transparency and stakeholder trust
- Fosters innovation and competitiveness



Zenith Rubber's Recycling Initiatives:

- Reduces overall waste and promotes eco-friendliness
- Converts rubber cuttings into reusable crumbs and compounds
- Reduces non-biodegradable rubber waste in landfills
- Conserves natural resources

Recycled Rubber Advantages:

- Excellent durability
- High resistance
- Superior resilience



Pollution Control & Air Quality Check at Zenith:

Ambient Air Quality Monitoring

- Regularly monitored as per CPCB and IS guidelines
- Checks emission of gases within permissible limits

Stack Emission Quality Monitoring

- Regularly monitored as per IS guidelines
- Ensures emissions within MPCB permissible limits

Our Commitment

- Protecting the environment from pollution
- Ensuring air quality through advanced equipment



Water Quality Management at Zenith

- Sewage Treatment Plant (STP) for wastewater treatment
- Regular water quality monitoring
- Recycle and reuse of treated water



Zenith's STP (Sewage Treatment Plant)

- Removes contaminants from industrial wastewater and washroom outlets
- Treats 18,000 litres daily through physical, chemical, and biological processes
- Produces environmentally safe treated wastewater
- Treated water reused for gardening
- Sewage sludge undergoes further treatment for safe disposal



Solar Power Initiatives at Zenith

Capacity & Generation

- 2.5 MW solar plant at Satara, generating 13,000 units/month
- 575 kW solar plant at Dombivli, generating 1,700 units/month

Benefits

- Renewable energy sold to Maha Solar (MSDCL) at ₹4.32/unit
- Reduced electricity bills for factory operations
- Environmental benefits: avoided CO2 emissions

Utilization

- Solar power for day-to-day plant operations
- Solar-powered lighting systems



Rain Water Harvesting at Zenith

Utilization:

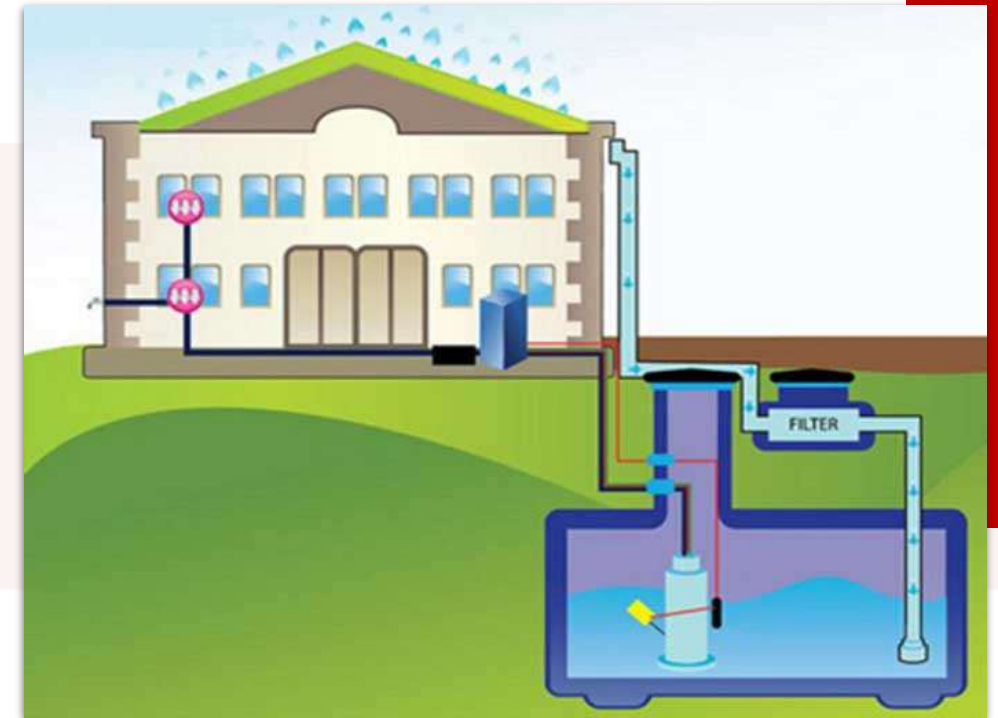
- Fire hydrant water tank
- Boiler feed water
- Cooling tower water (Shed No. 02)
- Washroom water (Shed No. 02)

Collection Points:

- Shed No. 02 roof (connected to fire hydrant underground tank)
- Dispatch Section roof (connected to 400,000L underground tank)
- Shed No. 01 roof (connected to portable tank)

Daily Usage:

- 35,000L (process and washroom)
- 60,000L (cooling tower, boiler water softener, and makeup tank)



PNG (Piped Natural Gas) at Zenith

Benefits:

- Cleaner, safer, and more efficient alternative to Furnace oil
- Reduces production costs (Rs/Kg)
- Minimizes emissions through chimney
- No land contamination risk
- Improves air quality

Key Features:

- Dedicated PNG station
- Pipeline network with safety valves
- Uninterrupted supply
- Environmentally friendly





THANK YOU