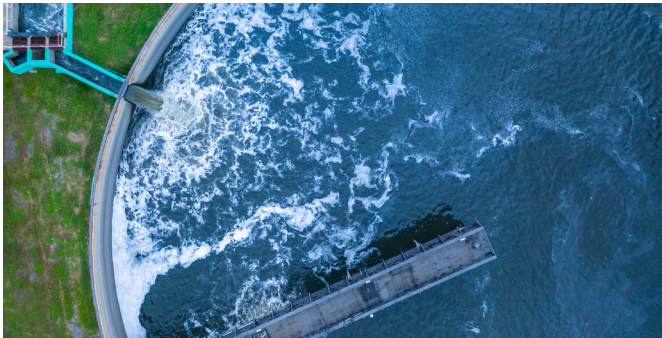


# Zero Liquid Discharge Assessments



## Overview

The sustainable business practices recognize that there is obvious link between the improved use of resources and outlay savings. Efforts are being taken by the organizations towards meeting the objective the “Zero Liquid Discharge” (ZLD).

## Benefits:

- Recycle water on site, lowering water acquisition costs and risk
- Lowered waste volumes decrease the cost associated with waste management.
- Green house Gas Reduction
- Identification and improvements of processes or divisions
- Reduction in the adverse environmental impacts
- Meeting environmental goals
- Improved Corporate Social Responsibility
- Environmental performance additional to legal norms
- Institute as leader in the peer community

## Assessment Approach:

TUV has developed methodology for evaluation of ZLD efforts. The methodology is also dynamic in nature as it establishes baseline, enumerates waste water diversion rates and establishes benchmark for continual improvement of diversion rate.

- Categories of Waste Diversions
  - Silver Diversion Rate

- Gold Diversion Rate
- Platinum Diversion Rate
- What qualifies as diversion?
  - Wastewater treatment levels and the parameters as per the prescribed norms.
  - Organizational wastewater treatment can be a useful resource for other organization (Supply to other organization)
  - Applications of treated wastewater in reuse and recycling
- What is evaluated?
  - Treated wastewater physio-chemical parameters
  - Flow diagram of the waste water treatment
  - Process flow diagram with water mass balance
  - Waste water elimination methods
  - Waste water reduction methods
  - Waste water treatment methods
  - List of steps applied in ZLD

The typical process steps include -

- Offer finalisation with the client based on the information provided (scope, criteria, etc)
- Defining the assessment planning & approach
- Preliminary Review & verification of the Organizations wastewater handling, disposal & diversion data
- Onsite assessment for detailed assessment of water mass balance, operating practices and wastewater management controls



- Submission of the ZLD Assessment report
- Technical Review & Award of Certification by TUV India

## Why choose TUV India

In addition to the above, our credentials include –

- Wide pool of highly qualified and experienced assessors across India
- Comprehensive and diverse range of value-added services
- Key account management
- One-stop solution for your sustainability requirements

## About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petrochemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

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