

Water & Waste Water Treatment Audit, Troubleshooting & Effective - Operation & Maintenance

We are leading IMS (ISO 9001,14001 17025/NABL & OHSAS 18001-ISO 45000) certified & Integrated HSEQR Consulting Engineers, Scientists & Trainers , having business operations in India & Abroad.

We Undertake

ETP/STP/WTP AUDIT

We offer on-site ETP/STP/WTP Audit , which covers , Site Inspection & Review of :

- ☐ ETP/STP/WTP-Process & Operation-adequacy & efficacy, based on old & current data
- ☐ Chemicals /Bio-culture dosing & process optimisation
- ☐ Review of Pre-treatment, Primary, Secondary, Tertiary & ZLD Plant
- ☐ Preventive Maintenance
- ☐ Predictive Maintenance
- ☐ Sludge handling & optimisation
- ☐ Odour removal/control
- ☐ Laboratory Inspection with infrastructure support & staff
- ☐ Cost reduction & opportunity for water savings
- ☐ Legal Compliances

& **1 day training workshop** to on-site ETP/STP/WTP Operating & Management staff



A detailed influents & effluents analysis is carried out on demand at our Environmental Laboratory in comprehensive ETP Audit with visit to ETP/STP/WTP will be part of the audit.

Audits are designed to address specific issues or to measure operating parameters. Typical operational audits addresses common issues related to plant process & operation:

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| <ul style="list-style-type: none"> <input type="checkbox"/> Quality control/assurance <input type="checkbox"/> Regulatory compliance <input type="checkbox"/> Water conservation <input type="checkbox"/> Wastewater characterization and biodegradability <input type="checkbox"/> Selection of water and wastewater treatment technologies if desired | <ul style="list-style-type: none"> <input type="checkbox"/> Reduction of plant effluent <input type="checkbox"/> Cost reduction/Cost avoidance <input type="checkbox"/> Higher Efficiency <input type="checkbox"/> Plant Safety <input type="checkbox"/> Sanitation <input type="checkbox"/> Opportunities for Water Recycle |
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The work is carried out by a detailed analysis of history data and evaluation of performance at future production levels. The report includes a status evaluation, determination of key performance data and list of recommended actions.

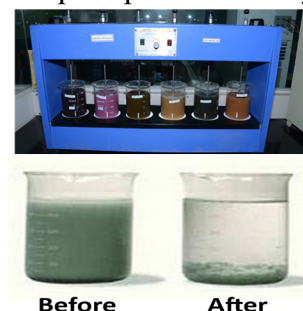
TREATABILITY, FEASIBILITY & PILOT PLANT STUDIES

In feasibility studies and investment project implementations GCI has experience and resources in all the main disciplines with Work included detailed analysis of plant performance and evaluation of corrective measures.

GREEN CIRCLE, INC., provides a complete range of testing facilities from a simple bench-scale treatability trial, used to determine the degradability of a wastewater, through to the development and operation of bespoke pilot plants to verify conventional and novel technologies.

Our trials include:

- ☐ Chemical treatment (precipitation, pH correction, flocculation, coagulation)
- ☐ Physical treatment (settlement, floatation, depth filtration, membrane filtration, dewatering)
- ☐ Aerobic biological treatment (ASP, SBR, MBR, MBBR, SAF, BAFF, TF)
- ☐ Anaerobic Biological treatment (CSTR, UASB, EGSB, hybrid)



**Studies can be tailored to suit the application with trials including; industrial effluent, process water, municipal wastewater, dewatering liquors & Leachate.*

WATER AUDIT

GCI offer Water Auditing Services, which is qualitative and quantitative analysis of water consumption to identify means of reuse and recycling of water. Water Auditing enhances the efficiency of the complete water circuit. Water Auditing Services that we offer include segregation of effluent streams and schemes for effectively treating them. Water Auditing Services also encourage social responsibility by identifying wasteful use and enable estimation of the saving potential.

Water Auditing Process :

Our Water & Energy Auditing Service is a systematic, detailed and structured evaluation and improvement process, which are organized around three phases :

➔ Phase 1 : Trend & Benchmark

Historical data on plant production volumes, water and energy use, costs, effluent volume and quality is collected from the plant and analyzed to determine accurate baseline cost trends and plant conditions, and correlate it to production levels.

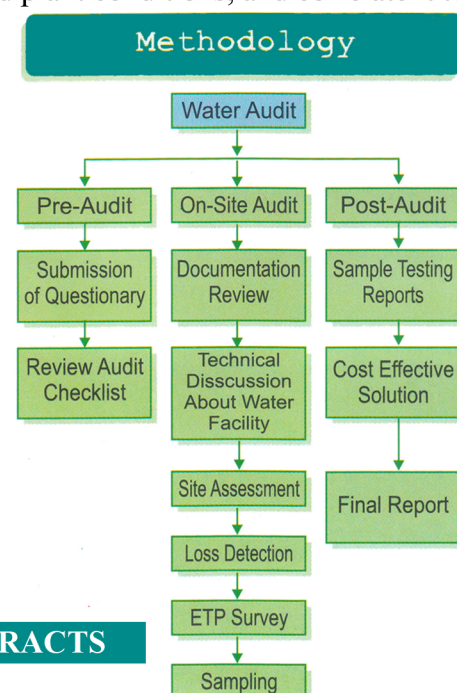
➔ Phase 2 : Measure & Evaluate

- ☐ Quantifies a baseline water map
- ☐ Produces a plant water balance
- ☐ Defines critical sources of effluent contamination
- ☐ Provides a ranking of all water users with respect to their volume and cost
- ☐ Defines a quantitative target of potential savings opportunities versus the industry model performance indicators

➔ Phase 3 : Implement & Sustain

A phase of planning and execution to establish on-site actions including :

- ☐ Defining and prioritizing projects to turn opportunities into real savings
- ☐ Establishing project Implementation guidelines on site
- ☐ Establishing the Performance



ETP / STP / WTP / RO – ANNUAL OPERATION & MAINTENANCE CONTRACTS

GCI also offers ETP/STP/WTP/RO - comprehensive and non-comprehensive operation/maintenance of existing ETPs / STPs / WTPs / RO Plants as single point accountability, where all the operation, maintenance, consumables, servicing, inventory management, spares, log sheets and other general upkeep of plant is maintained by our experienced Operating staff under strict quality assurance.

The cost of failing to maintain environmental compliance or inefficient process operation can be high. **GREEN CIRCLE, INC.**, specialise in the troubleshooting and optimisation of both industrial effluent treatment plants and sewage treatment plants, WTP, RO & ZLD.



Contact or write for your requirements to **GREEN CIRCLE, INC.**

Integrated HSEQR Consulting Engineers, Scientists & Trainers

ISO 9001, 14001, NABL/17025 & OHSAS 18001 (ISO 45000) Certified Organisation

(MoEFCC Recognised & NABL Approved Environmental Laboratory & QCI NABET Accredited EIA Consultants)

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