

CALENDAR 2026

INSPIRING AWARENESS. EMPOWERING SUSTAINABILITY.



AQURA[®]

INNOVATE | CREATE | CONSERVE
30 YEARS OF BUILDING TRUST
CLIMATE ACTION COMPANY

QCI & NABET Accredited 'A' Category Consultant

*“Bridging compliance and sustainability with data-driven insights, multidisciplinary expertise,
and globally aligned environmental solutions for projects that matter”*



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AQURA – INSPIRING AWARENESS. EMPOWERING SUSTAINABILITY.

- ◆ AQURA stands apart as one of India’s most trusted environmental consultancy, backed by over a decade of Category A NABET accreditation. Our proven expertise across high-impact industrial, infrastructure, coastal, township, and redevelopment projects ensures that clients receive technically sound, regulator-ready documentation every time. With more than 100 successful Environmental Clearances and 150+ CRZ approvals, our track record reflects reliability, precision, and unmatched regulatory understanding.
- ◆ What truly differentiates AQURA is our deep subject-matter capability. Our multidisciplinary team includes nationally accredited EIA Coordinators, Functional Area Experts, ISO-certified GHG auditors, LCA specialists, hydrologists, ecologists, and policy experts. Beyond India, our experts are internationally empanelled and have contributed to projects in Oman, Qatar, and the UAE bringing global best practices into Indian assignments. This cross-border experience strengthens both the depth and credibility of our assessments.
- ◆ Our approach combines **regulatory mastery with scientific rigor**. Whether navigating EC, CRZ, ESZ, HPC, CTE/CTO, MSW, LCA, GHG Accounting, or emerging domains like carbon sequestration and carbon markets, AQURA ensures that every study is compliant, data-driven, and aligned with national and global protocols. Our expanding capabilities in carbon removal reporting, Verra methodologies, IPCC AFOLU guidelines, REDD+, and international carbon trading frameworks position us as a future-ready partner in climate action and ESG strategy.
- ◆ Above all, AQURA is chosen for its commitment to **quality, transparency, and client success**. We deliver clear communication, timely submissions, and audit-ready documentation—helping clients secure approvals faster, avoid legal risks, and build sustainable, environmentally responsible projects. In a sector where precision and compliance define outcomes, AQURA stands as a dependable, knowledgeable, and forward-thinking consultancy you can trust.

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EC PROCESS & COMPLIANCE



PROJECT CATEGORIES



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ENVIRONMENTAL CLEARANCE (EC)

- ✦ **Environmental Clearance (EC)** is a mandatory approval process under the **Environment (Protection) Act, 1986 of India** that ensures a proposed project does not have significant adverse impacts on the environment. It is granted by the Ministry of Environment, Forest and Climate Change (MoEFCC) or the State Environmental Impact Assessment Authority (SEIAA), depending on the category of the project.
- ✦ Environmental Clearance is required before starting any construction, industrial, or infrastructure activity likely to impact the environment. As per the **EIA Notification, 2006 and its subsequent amendments**, EC must be obtained for:
 - Buildings $\geq 20,000$ sq.m. built-up area
 - Townships > 50 hectares or $\geq 150,000$ sq.m. built-up
 - Industries, mining, power plants, ports, highways, and CRZ projects
 - Expansion/Amendment/modernization in existing projects increasing pollution load after obtaining prior EC
- ✦ **Who grants EC:** Category A (high-impact): MoEF&CC, Government of India & Category B1/B2 (moderate/low impact): SEIAA, State Government
 - Starting construction without EC is a legal violation and may attract penalties, work stoppage, or demolition orders as per EP Act, 1986 by regulatory bodies like CPCB, SPCB, NGT, or SEIAA. Environmental Clearance ensures sustainable development, legal compliance, and environmental protection making it essential for developers, businesses, and local ecosystems alike.
- **Why AQURA**
 - **NABET-Accredited Category A Consultant:** Authorized Environmental Consultancy Organization under the QCI-NABET scheme for EIA, eligible to handle high-impact Category A projects.
 - **Trusted Since 2015:** Continuously achieving 'A' category accreditation for a decade, AQURA remains among India's award winning environmental consulting firms for industrial, infrastructure, and real estate sectors.
 - **Proven EC Track Record:** Successfully handled 100+ Environment Clearance (EC) assignments,
 - **Preferred Partner for Large Complex Projects:** With experience in over 25+ area development and township projects, AQURA is the first choice for clients undertaking large and complex assignments that demand strong technical expertise in applicable rules, regulations, laws, policies, and MoEF&CC requirements.
 - **Swift EC Processing:** AQURA is the preferred choice for developers, consistently achieving Environmental Clearance in just 2–3 months, helping projects start sooner with full regulatory compliance.
 - **Resource Protection:** AQURA have assisted implementing 285 MLD of STPs of varying capacities and 6,972 KLD of RWH systems—conserving water and reducing pollution load.
 - **Waste Management Built-In:** Over **66 MT/day** of organic waste treatment designed to prevent landfill pressure and support composting.
 - **AQURA** is in environmental business from last **30 years**.

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Environmental Impact Assessment (EIA): Global Practices

March 2026



WORLD BANK ESF (ESS1 & ESS10)



IAIA/IEMA BEST PRACTICE FRAMEWORK



ADBI SOCIAL & NV. FRAMEWORK

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ENVIRONMENTAL IMPACT ASSESSMENT (EIA): GLOBAL PRACTICES

EIA is a critical process used globally to evaluate the environmental and social impacts of development projects before implementation.

Global Frameworks

✦ NEPA (USA):

- The **National Environmental Policy Act (1969)** established the foundation of EIA worldwide. It requires Environmental Assessment (EA) or Environmental Impact Statement (EIS) with public consultation and a formal Record of Decision (ROD).

✦ ADB Environmental and Social Framework (2024):

- All ADB-funded projects especially those with high or substantial E&S risks must undergo an Environmental and Social Impact Assessment (ESIA) as per ESS1 (Assessment and Management of Environmental and Social Risks and Impacts) and ESS10 (Stakeholder Engagement and Information Disclosure).

✦ World Bank ESF (ESS1 & ESS10):

- The Environmental and Social Framework mandates Environmental and Social Impact Assessments (ESIA) for all substantial-risk, funded projects. Key elements include risk screening, ESMPs, and stakeholder engagement - a prerequisite for financing approval.

✦ IAIA/IEMA Global Best Practice Framework for EIA

- The International Association for Impact Assessment (IAIA) and the Institute of Environmental Management and Assessment (IEMA) recommend that EIA be applied to all development proposals with potentially significant environmental or social impacts. The framework is process-driven and emphasizes participation, transparency, and sustainability.

✦ Key EIA Steps (Globally Followed)

- Screening & Scoping
- Baseline Environmental Study
- Impact & Alternatives Analysis
- Mitigation & Monitoring Plans
- Stakeholder Engagement
- Regulatory Clearance & Reporting
- Post-Approval Monitoring

➤ Why AQURA

- **Expert EIA & Compliance Team:** NABET-accredited EIA Coordinators and Functional Area Experts (FAEs) provide complete regulatory support and detailed documentation, aligning projects with both National and global frameworks.
- **University-Linked Experts:** AQURA has mentors and experts from top universities of India.
- **Global Hydro-Geology Leadership:** AQURA's experts develop DBRs for petroleum-sector projects across India, Oman, Qatar, and the UAE, bringing cross-regional technical excellence.
- **Policy & High-End Project Expertise:** Team members have supported government agencies in drafting policies, carried out environmental and social impact assessments (ESIA) for global funding agencies, and prepared efficient Design Basis Reports (DBRs) for oil & gas projects.
- **Ecology, Afforestation & Climate Action:** AQURA experts conduct ecology, biodiversity and soil studies for projects under EIA Notification 2006, lead afforestation initiatives, and actively participate in climate forums, including COP conferences since 2014.
- AQURA's team includes professionals who are guest faculties at top universities.

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Coastal Zone Regulation (CRZ) Clearance

April 2026

Coastal Zone Regulations

CRZ - I

Ecologically Sensitive Areas

CRZ - II

Urban (developed) areas up to the shoreline of the coast

CRZ - III

Rural and urban areas which fall outside CRZ-I and CRZ-II

CRZ-III (Rural Area)

CRZ-III A

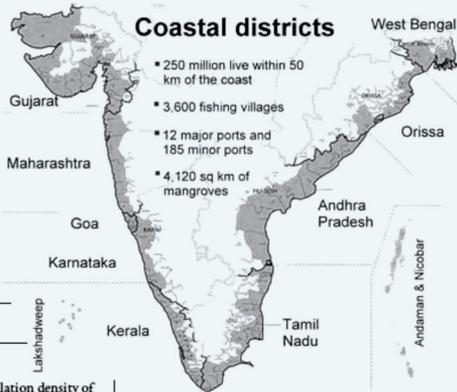
Densely populated areas with a population density of 2161 per square kilometre. A NDZ of 50 meters from HTL.

CRZ-III B

Areas with population density of below 2161 per square kilometre. A NDZ of 200 meters from HTL.

CRZ - IV

Aquatic areas up to territorial limits



Source: Next IAS by MADE Easy/

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COASTAL ZONE REGULATION (CRZ) CLEARANCE

- ◆ MoEF&CC, under Section 3 of the Environment (Protection) Act, 1986, first issued the CRZ Notification in 1991, updated it comprehensively in 2011, and further refined it in 2019. The regulation cover India's ~7,500 km mainland coastline and regulate coastal activities, excluding the Andaman & Nicobar and Lakshadweep islands.
- ◆ MoEF&CC also issued the Island Protection Zone (IPZ) Notification, 2011 to regulate coastal and marine areas of the Andaman & Nicobar and Lakshadweep islands through island-specific plans and zoning, safeguarding ecosystems and local livelihoods. This built on the broader CRZ framework of 1991 and the M.S. Swaminathan Committee (2005) recommendations for integrated, science-based coastal management and community participation.
- ◆ The IPZ-2011 introduced Integrated Island Management Plans (IIMPs) and mapping requirements as the operational backbone, and was later superseded/updated by the Island Coastal Regulation Zone (ICRZ) Notification, 2019 while retaining the same legal basis.
- ◆ Together, these notifications create a legal framework separate from the Island Protection Zone rules for A&N and Lakshadweep to conserve sensitive coastal and marine ecosystems while safeguarding fisher and local livelihoods and enabling scientifically informed, risk-aware development.
- ◆ Projects are appraised against approved CZMP maps and applicable CRZ/ICRZ norms, with CRZ-I and CRZ-IV areas requiring SCZMA/NCZMA recommendation and MoEF&CC approval, while CRZ-II and CRZ-III areas are approved directly by SCZMA/NCZMA.
- ◆ Why it matters: Protects mangroves, corals, beaches and estuaries; maintains buffers for erosion, cyclones & sea-level rise; and safeguards fisher/community livelihoods while enabling risk-informed development the same conservation rationale seen in global regimes.

➤ Why AQURA

- ◆ AQURA with a track record of securing **150+ CRZ approvals**, delivers complete end-to-end CRZ services, making it a reliable one-stop partner for coastal development projects.
- ◆ AQURA has a strong track record, having worked with govt and real estate developers on **sensitive coastal and redevelopment projects**.
- ◆ AQURA is associated with leading universities for advanced CRZ mapping, ensuring scientific precision and credibility.
- ◆ AQURA has **contributed to national CRZ policy**, including the significant amendment of the bay buffer zone from 500 m to 100 m, reflecting our strong technical and regulatory expertise.

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Consent To Establish (CTE) & Operate (CTO)

May 2026



SPCB

CONSENT TO ESTABLISH

CONSENT TO OPERATE

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CONSENT TO ESTABLISH (CTE) & OPERATE (CTO)

Consent to Establish (CTE) and Consent to Operate (CTO) are mandatory approvals under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 of India, which ensure that a proposed or operating project complies with prescribed pollution control norms. These consents are granted by the State Pollution Control Boards (SPCBs).

CTE must be obtained before the start of construction or installation of any plant, and CTO is required prior to commencing actual operations. This two-step consent process helps to prevent and reduce pollution by making sure that industries and infrastructure projects do not harm the air, water, or land during construction or operation.

✦ **Who Needs to Obtain Consent to Establish (CTE) and Consent to Operate (CTO):** All individuals, companies, or organizations planning to set up and operate any industrial, infrastructure, commercial, or construction project that may generate air or water pollution are required to obtain CTE before starting construction and CTO before commencing operations. This includes:

- Industrial units (manufacturing, processing, etc.)
- Infrastructure and construction projects
- Commercial establishments using DG sets, STPs, or ETPs
- Projects involving emissions, effluents, or hazardous waste
- Existing units planning expansion or modernization
- These consents must be obtained from the State Pollution Control Board (SPCB).

Category of Consent's		
Category	Pollution Index Range	Key Features
Red	PI > 80	High pollution potential sectors
Orange	55 ≤ PI < 80	Moderate pollution sectors
Green	25 ≤ PI < 55	Low pollution potential
White	PI < 25	Least pollutant sectors
Blue	–	Essential Environmental Services (EES) such as waste-to-energy, biomining, municipal STPs, and CBG plants using agro-residue or municipal waste

➤ Why AQURA

- AQURA with proven expertise in obtaining **100+ Consents to Establish and Operate** for construction projects, industries etc. provides comprehensive consent management services, making us a trusted one-stop partner for regulatory approvals.
- AQURA's dedicated regulatory coordination team maintains continuous follow-up with SPCB offices, ensuring real-time tracking of applications and significantly reducing approval delays and compliance uncertainties for clients.

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Periodic Compliance Post Environmental Clearance (EC)

June 2026



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PERIODIC COMPLIANCE POST ENVIRONMENTAL CLEARANCE (EC)

Once a project has received Environmental Clearance (EC), it must adhere to certain **statutory compliance requirements** as per the **Environment Impact Assessment (EIA) Notification, 2006** amended from time to time and applicable **State Pollution Control Board (SPCB)/CPCB** guidelines. The key periodic compliances are:

1. Six-Monthly Compliance Report (SMCR):

- As per the EIA Notification, 2006 – Clause 10(i), and Condition C (General Conditions) of the Environmental Clearance (EC) letter, all projects granted EC are required to submit Half-Yearly Compliance Reports. This post-clearance monitoring is mandatory and must report the status of compliance with both General and Specific EC conditions. The compliance reports are to be submitted twice a year. These reports must be submitted to the Regional Office of MoEF&CC, the respective CPCB/SPCB Zonal Office, and must also be uploaded on the project proponent's official website.

2. Certified Compliance Report (CCR):

- As per MoEF&CC Office Memorandum F. No. IA3-22/10/2022-IA.III [E 177258] dated 08.06.2022, a Certified Compliance Report (CCR) is legally required for all projects seeking Environmental Clearance (EC) amendment, expansion, or extension. The CCR is issued by the Integrated Regional Office of MoEF&CC following a field inspection and document-based verification of EC condition compliance. The report is only issued if Six-Monthly Compliance Reports have been consistently submitted. It is a mandatory requirement for appraisal by EAC/SEAC and SEIAA during any modification in project scope.

3. Environment Statement Report (Form V):

- As per Rule 14 of the Environment (Protection) Rules, 1986 and the General Conditions of the Environmental Clearance, submission of an Environment Statement (Form V) is mandatory for all industrial units and projects operating under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981. The report is to be submitted annually to the respective State Pollution Control Board (SPCB) for the financial year April to March. It is a critical compliance document to assess the project's environmental performance and sustainability efforts.

➤ Why AQURA

- Extensive Reporting Expertise:** Over **50+ annual six-monthly compliance reports** and **Environment Statement Report (Form V)** prepared. **15+ MoEF&CC-certified CCRs** delivered with accuracy and reliability.
- Dedicated & Experienced Compliance Team:** A highly skilled team working **exclusively on compliance services**. Conducts detailed data verification, coordinates onsite assessments, and ensures regulator-ready documentation.
- Proactive Communication & Timely Deliverables:** Clients are notified well in advance of submission timelines. Continuous follow-up is maintained to ensure smooth and timely completion of all reports.
- Commitment to Quality & Customer Satisfaction:** AQURA ensures **on-time, high-quality services**. Focus on **continual improvement** to enhance overall customer satisfaction.

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HIGH POWER COMMITTEE (HPC)

The High-Power Committee (HPC) is the apex statutory authority responsible for approving cluster redevelopment proposals under Regulation 33(9) of the Development Control and Promotion Regulations (DCPR 2034). In this role, it holds environmental assessment and oversight responsibilities during the approval and monitoring of redevelopment projects. It ensures that environmental sustainability is a core component of every cluster redevelopment plan. This includes review and clearance of the Environmental Management Plan (EMP), layout designs, and supporting infrastructure, in compliance with state and central environmental laws.

The HPC was created under Regulation 33(9) and Appendix III-A of the Development Control and Promotion Regulations (DCPR) 2034, empowered by Government Resolutions issued by the Housing Department to examine redevelopment proposals for viability, legality, and compliance with development norms. Coordinate among multiple departments involved in planning, housing, infrastructure, and municipal services. Ensure planned redevelopment with proper infrastructure, public amenities, and regulatory safeguards. Act as a dispute-resolution platform for issues arising between stakeholders involved in cluster projects.

HPC ensures centralized governance, policy compliance, and transparency in cluster redevelopment. It streamlines approvals, integrates environmental infrastructure planning, analyzing carrying capacity of the project area and resolves stakeholder conflicts efficiently.

Environmental Aspects Reviewed by HPC: Air Environment, Noise Environment, Ecology & biodiversity, Water Environment, Solid Waste Management , Energy & Resource Use, Social Environment, Traffic & Transportation, Climate Resilience.

The High-Power Committee (HPC) is a regulatory safeguard mechanism to ensure that environmental considerations are not compromised in the process of redevelopment. It plays a pivotal role in integrating ecological sustainability into urban transformation, reviewing project designs, and holding agencies accountable for implementation.

➤ WHY AQURA :

- AQURA has deep experience handling **environmental documentation**, assessments, and compliance specifically for Mumbai's cluster redevelopment projects governed by HPC. The team understands the exact expectations, formats, and technical scrutiny applied by HPC committee.
- AQURA has **A category NABET Accreditation for more than 10 years and total experience of more than 30 years.**
- AQURA is recognized as a reliable, high-credibility consultant by MoEF&CC, SEIAA, MCZMA, and municipal authorities (More than 100+ projects completed), a strong advantage during HPC scrutiny.

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Eco Sensitive Zone (ESZ) Clearances

August 2026



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ECO SENSITIVE ZONE (ESZ) CLEARANCES

Eco-Sensitive Zones (ESZs) are areas with unique and high ecological, biodiversity, landscape, wildlife, historical or natural value that require special protection and careful management. As recognized in the National Environment Policy (2006), these zones act as “shock absorbers” for Protected Areas (National Parks and Wildlife Sanctuaries) by minimizing adverse impacts of human activities on fragile ecosystems.

Declaring ESZs helps conserve environmental resources, maintain biological integrity, & restore ecosystems that are already under stress from anthropogenic pressures and climate change. In simple terms, ESZs safeguard critical habitats and ecosystem services while allowing only carefully regulated development.

Under the Environment (Protection) Act, 1986, MoEFCC notifies Eco-Sensitive Zones around Protected Areas and prescribes a list of prohibited, regulated, and permissible activities in each ESZ notification. Projects/activities located in a notified ESZ must comply with the specific ESZ notification and, if covered under the EIA Notification, 2006 (as amended), obtain prior Environmental Clearance (EC) accordingly. Environmental Clearances for such projects are granted only after due consideration and recommendation by the Expert Appraisal Committee (EAC), ensuring that development within or near ESZs is strictly regulated, legally compliant, and ecologically sensitive.

✦ **ESZ In Mumbai**

- **Sanjay Gandhi National Park (SGNP):** ESZ around SGNP was finally notified on 05.12.2016. It covers an area of 59.456 Sq. km, extending from about 100 m. to 4 km from the park boundary, providing a crucial protective buffer to this urban biodiversity hotspot.
- **Tungareshwar Wildlife Sanctuary (TWLS):** ESZ around TWLS was notified on 11.09.2019. It covers 67.26 Sq. km, extending from 100 m. to 4 km from the sanctuary boundary, helping conserve forested landscapes and important wildlife corridors.
- **Thane Creek Flamingo Sanctuary (TCFS):** ESZ for TCFS was notified on 14.10.2021. It spans 48.305 Sq. km, extending from 0 to 3.89 km around the sanctuary, safeguarding mangroves, mudflats, and habitats of flamingoes and other migratory birds.

➤ **Why AQURA**

- AQURA is the pioneering consultant to achieve an ESZ Clearance for a project falling under the Thane Creek Flamingo Sanctuary's Eco-Sensitive Zone.
- AQURA's team includes Ecology & Biodiversity experts and mentors with extensive international experience, enabling the delivery of advanced, research-driven ecological insights
- With over 10 years of experience in handling ecologically sensitive projects, AQURA brings deep understanding of fragile habitats, regulatory expectations, and mitigation strategies that balance conservation and development.

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Other Studies

September 2026



100+

**ACCREDITED
EXPERTISE**



**SOLID WASTE
MANAGEMENT
PROJECTS**



**ECOLOGY &
BIODIVERSITY
PROJECTS**



**INNOVATIVE
SOLUTIONS**

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OTHER STUDIES

- ✦ **ECOLOGY & BIODIVERSITY STUDIES:** Ecology and biodiversity studies identify sensitive habitats, protected species, and ecological features potentially impacted by project activities. They ensure compliance with laws like the Environment Protection Act, Wildlife Protection Act, Forest Act and relevant international regulations. These studies help predict ecological impacts and guide effective mitigation measures such as greenbelts and habitat conservation. Proper assessments minimize legal risks, public opposition and non-compliance during project clearances. Overall, they promote environmentally responsible planning while preserving ecological balance and ecosystem services.
- ✦ **MUNICIPAL SOLID WASTE (MSW) MANAGEMENT STUDIES:** MSW studies analyze the quantity, composition and characteristics of waste to design efficient management systems. They ensure regulatory compliance and help plan safe collection, segregation, storage, transportation and disposal. By identifying gaps and risks in current practices, these studies prevent pollution, health hazards and violations. MSW assessments support planning of infrastructure like composting units, material recovery facilities, biomethanation plants and scientific landfills. Ultimately, they promote sustainable urban development by enabling cleaner cities, resource recovery and long-term environmental protection.
- ✦ **SOCIAL IMPACT ASSESSMENT (SIA):** SIA studies evaluate how a project may affect local communities, livelihoods, housing, mobility and social infrastructure. It helps ensure compliance with legal frameworks and support transparent, equitable land acquisition and rehabilitation processes. By identifying social risks and stakeholder concerns early, SIA enables project proponents to design targeted mitigation and community development measures. It builds trust and reduces conflict by involving communities in decision-making through consultations and public participation. Ultimately, SIA ensures that development projects are socially responsible, inclusive and beneficial to both the project and affected populations.

➤ Why AQURA

- **Accredited Expertise:** Successfully completed **100+ projects**, including both **National and International** assignments, backed by over 10 years of accreditation.
- **Thought Leadership:** Experts regularly attend and deliver expert sessions at national and international conferences and seminars, sharing knowledge and staying at the forefront of environmental and social research.
- **Award-Winning Expertise:** Team includes a **gold medalist expert** in the socio-economic studies highlighting exceptional skill and recognition in the field.
- **Innovative Solutions:** Developed a comprehensive Design Basis Report (DBR) for international clients/projects, showcasing expertise in structured project planning.

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GHG Accounting: Where Compliance Meets Carbon Revenue

October 2026



GREENHOUSE GASES

GHGs



CARBON DIOXIDE CO₂

fossil fuel combustion
deforestation

HYDROFLUOROCARBONS HFCs

refrigerants, aerosols

METHANE CH₄

Agriculture
landfills

PERFLUOROCARBONS PFCs

aluminum production,
electronics

NITROUS OXIDE N₂O

Industrial &
agricultural
activities

SULFUR HEXAFLUORIDE SF₆

electrical equipment

CONTRIBUTE TO THE GREENHOUSE EFFECT

Mo	Tu	We	Th	Fr	Sa	Su
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

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GHG ACCOUNTING: WHERE COMPLIANCE MEETS CARBON REVENUE

✦ **What is GHG Accounting?**

Greenhouse Gas (GHG) Accounting is the systematic process of identifying, quantifying, and reporting emissions from organizational activities or products. It forms the foundation for regulatory compliance, achieving net-zero targets, and generating revenue through carbon markets.

✦ **India's Climate Commitment & GHG Accounting**

India's updated Nationally Determined Contributions (NDCs) commit to reducing the emissions intensity of GDP by 45% from 2005 levels by 2030 and ensuring that 50% of the total installed electricity capacity comes from non-fossil fuel sources. GHG Accounting is critical for tracking, validating and monetizing emission reductions, thereby enabling progress toward these national climate goals.

✦ **Legal Framework & Market Pathways**

India's Carbon Credit Trading Scheme (CCTS), notified under the Energy Conservation Act, 2022, establishes a dual pathway for both compliance and voluntary carbon markets. While designated sectors are mandated to monitor and reduce emissions under the compliance mechanism, the CCTS also formally recognizes voluntary emission reduction projects, allowing organizations outside the compliance sectors such as construction, real estate and service industries to generate carbon credits. These credits can be monetized through international platforms like Verra and Gold Standard, contributing to India's decarbonization agenda while offering financial returns.

✦ **Why It Matters to Business**

In today's economy, carbon is a tradable asset. Effective GHG management not only ensures compliance but also unlocks access to voluntary carbon markets, ESG-linked investments, and climate finance opportunities. By generating verified emission reductions, businesses can strengthen their sustainability credentials and gain a competitive edge.

➤ **Why AQURA**

- **Award-winning leadership & firm:** AQURA was ranked among the "10 Most Promising Environmental Consultants – 2020" by Industry Outlook and honored as "Asia's Most Admired Brand 2022" by White Page International at the Global Business Conclave, London.
- **NABET Category A (since 2015):** Among India's top accredited consultants for high-impact projects.
- **Proven performance:** 100+ projects delivered, 90+ Environment Clearances with audit-ready documentation.
- **ISO-certified GHG experts:** Team qualified in ISO 14064, 14067 and 14040/44 for globally robust GHG accounting and LCA.
- **From numbers to credits:** We convert GHG inventories into carbon reduction strategies and carbon credit opportunities.

✦ **Conclusion**

GHG Accounting is not just a compliance requirement it's a strategic tool to access carbon finance and demonstrate climate leadership. With deep regulatory understanding and global certifications, AQURA empowers Indian businesses to leverage the CCTS framework and voluntary markets to transform emissions into environmental and economic value.

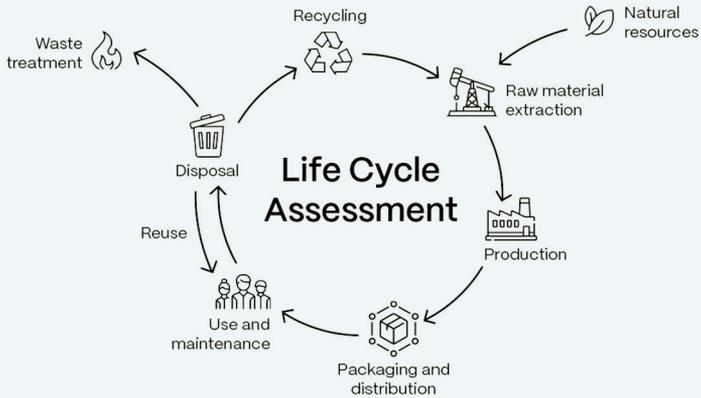
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Life Cycle Assessment (LCA)

November 2026



Source: Swiss Federal Office for the Environment (BAFU) (2022)

Mo	Tu	We	Th	Fr	Sa	Su
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LIFE CYCLE ASSESSMENT (LCA)

✦ Life Cycle Assessment (LCA)

- Life Cycle Assessment (LCA) is a scientific method used to measure the environmental impact of a product, process, or service across its entire life cycle from raw material extraction to manufacturing, use, and final disposal. It evaluates key factors such as energy use, carbon emissions, water consumption, resource depletion, and pollution.
- LCA helps identify environmental hotspots, supports sustainable design, improves decision-making, and enables transparent reporting through tools like Environmental Product Declarations (EPDs). By revealing hidden impacts and trade-offs, LCA empowers businesses, designers, and policymakers to make responsible and sustainable choices.

✦ ENVIRONMENTAL IMPACTS ASSESSED IN LCA

- LCA translates raw data into various environmental impact categories, such as:
 1. Climate change / Global warming (carbon footprint)
 2. Resource depletion (fossil fuels, water, minerals)
 3. Acidification and Eutrophication
 4. Human toxicity and ecotoxicity
 5. Ozone layer depletion
 6. Photochemical smog formation

✦ LCA is used across many sectors, but especially important in:

- Construction & Architecture: Assess environmental impact of buildings & materials
- Manufacturing: Optimize product life cycles
- Packaging: Compare alternatives (plastic vs. bio-based, etc.)
- Food & Agriculture: Field-to-fork analysis
- Transportation & Automotive: Well-to-wheel emissions
- Textiles & Fashion: Material and water footprint
- Energy: Renewable vs. fossil energy life cycle impacts

➤ Why AQURA

- Team of **experienced LCA specialists**.
- **Experts have expertise on GaBi & OpenLCA software.**
- **AQURA has lead auditor and internal auditors for ISO 14040/14044, 14064, 14067 and 9001: 2015.**
- **AQURA delivers credible, LCA report** for verification that strengthens your environmental claims and compliance.

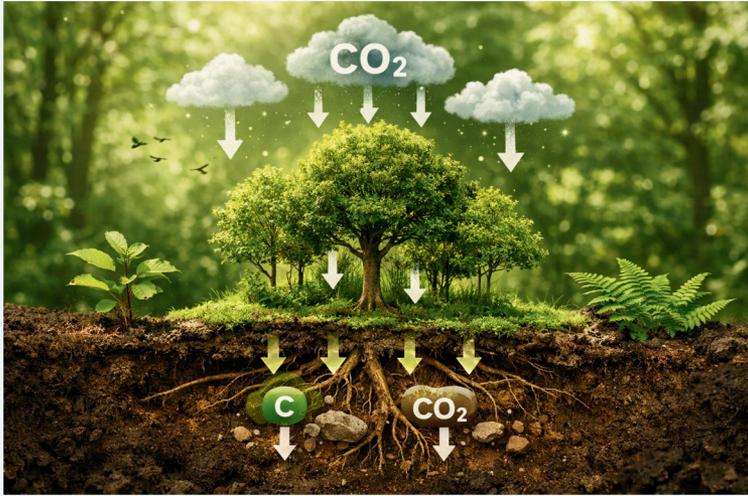
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Carbon Sequestration & Climate Resilience

December 2026



Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
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CARBON SEQUESTRATION & CLIMATE RESILIENCE

- ✦ Carbon sequestration refers to the process of capturing and storing carbon dioxide (CO₂) from the atmosphere. This can happen naturally through forests, soil, and oceans or through man-made solutions such as carbon capture and storage technologies. Among these, nature-based solutions like afforestation, reforestation, and soil restoration are increasingly recognized as an effective and sustainable strategies for removing carbon from the atmosphere. As global attention shifts toward achieving net-zero emissions, carbon sequestration is becoming a vital component of climate action plans.
- ✦ The significance of carbon sequestration extends beyond emissions reduction. It supports multiple co-benefits such as improving air quality, enhancing soil health, promoting biodiversity, and restoring degraded landscapes. For organizations and projects looking to meet their sustainability commitments, quantifying carbon sequestration can help demonstrate genuine climate responsibility not just in spirit, but in measurable outcomes.
- ✦ In today's regulatory and business landscape, environmental disclosures and ESG (Environmental, Social, and Governance) compliance frameworks are evolving rapidly. Many standards, including India's Business Responsibility & Sustainability Reporting (BRSR) and global initiatives like Carbon Disclosure Project (CDP) and Global Reporting Initiative (GRI), are now placing emphasis on emissions removal alongside reduction. Furthermore, voluntary carbon markets through mechanisms like Verra's VCS and the Gold Standard offer opportunities to generate carbon credits from validated sequestration projects, creating both environmental and financial value.
- ✦ As an environmental consultancy, we are actively venturing into this important domain of **carbon sequestration calculations and reporting**.
- ✦ AQURA aims to support clients in identifying, quantifying, and verifying carbon removal from afforestation, urban green cover, and land-use initiatives.
- ✦ Backed by a strong working knowledge of **IPCC Guidelines (Volume 4 – AFOLU)**, **Verra methodologies**, and emerging frameworks such as **REDD+** and **Croatia's carbon trading guidelines**, we are expanding our service offerings in line with leading global protocols.
- ✦ AQURA is committed to building robust, science-backed solutions that enable our clients to align with ESG goals, access climate-finance opportunities, and credibly demonstrate their contribution to climate mitigation.

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