

Raw material extraction → Processing → storage

Discard → use → Evergreen
Landfill ← disposal

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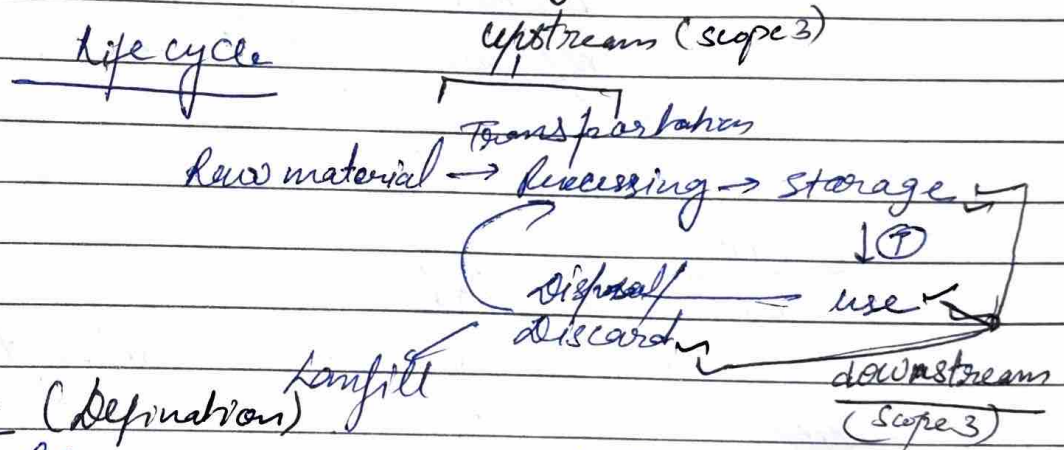
Benefits of ISO 14001

1. It helps in reducing environmental impacts & resource consumption.
2. It helps in preventing occurrence of legal fines.
3. It influences Public perception of the company.
4. It helps in continuous improvement in Environmental performance.
5. It acts as a data collection mechanism for Environmental reporting under metrics such as global Reporting initiatives (GRI) & Carbon disclosure project (CDP).

15/10/26

★ ISO 14064 (imp). [test 15 After mid-terms]

★ Determination of GHGs, Life cycle



- ISO 14064 (Definition)

This is a globally recognized standard developed by the international organization for standardization to provide a robust framework for quantifying, Reporting and verifying the greenhouse gas emission produced by an entity.

It has three components, that help organizations in developing credible and audit ready carbon footprint reports.

* Types of Emissions

The CO₂ emissions from any organization can be divided into Scope 1, Scope 2 & Scope 3

+ Scope 1

These are emissions which are under the company's immediate control. e.g. fuel combustion in machinery and vehicular operation, operation of computers & servers, heating of buildings, process emissions which are used in transformation of raw materials.

+ Scope 2

These are indirect GHG emissions caused by the production of purchased energy. Although the company does not generate these emissions on site, it still responsible for them through its business activities.

+ Scope 3

These are indirect emissions that occur outside the company's direct control both upstream & downstream.

Upstream activities include raw material extraction & Procurement.

Downstream activities include customer usage & disposal.

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* Components of ISO 14064

(i) ISO 14064-1 (Organization)

It is the foundational standard which applies to entire organization & outlines the principles & detailed requirement for quantifying & reporting GHG emissions & their removal across all business activities. It helps in identifying all sources of direct or indirect emissions (Scope 1, 2, 3).

(ii) ISO 14064-2 : Project based

This is designed at the axis of reducing & removing the GHGs produced during implementation of a project.

(iii) ISO 14064-3 : Guidelines

This consists of guideline which outline the requirements for validating & verifying GHG assertions made under Parts 1 & 2 of ISO 14064. This helps in preparing for audits, scrutiny & regulatory filings.