

Posters

Life Cycle Management – A Surer Way of Green Rating of Industry – An Indian Concept for Sustainability

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Abstract

Life Cycle Management (LCM) examines the cumulative impact on the Environment that a product generates from the ways of its exploration from the Raw Material Birth to Death i.e discarding /final disposal or disintegration stage. The impact on the environment also includes how best the raw material exploration can be done without disturbing the ecology of the area and how the transportation to the manufactured site has taken place. Evaluation of the impacts on the socio-economic fabric of the people in proximity of Raw Material exploration and manufacturing also constitute important as part of LCM.

Green Sourcing depicts selection and exploration of environment friendly Raw Material and the adopted means of exploration without disturbing the ecology of the area. This include mining of various ores and salts for manufacturing of Aluminum, Iron, Copper, Zinc, Super Phosphate, Ferric Alum and Active earth etc. They have to be considered from the point that in the exploration of the underground resources of our ore or salts, the ecology of the area including forest cover and other flora and fauna and the population in

the vicinity neither disturbed nor their means of lively hood jeopardised.

Next important consideration is on site selection. It should preferable be in proximity of the raw material location to avoid environment degradation due to intense transportation. The site should also conform to Environmental Guidelines of least impacting on the nature in its pristine form on the population in the proximity.

Equally important are the parameter of green financing where the sources of finance should clearly promote the cause of Environment and the use of finance should be strictly on promotion of clean technology, resource conservation and waste minimisation where the techniques on pollution prevention should be paying proposition. In Green Financing, the financing institution also play significant role in the LCM by developing their own criteria of financial inputs when restrictions can be imposed in case Industry does not conform to Statutory norms. Institutional Investors in LCM, therefore ensure that government regulations are adhered to and people; Health and Environment are protected.

Before siting of an industry, the Environmental Impact Assessment of the Manufacturing processes and the technology should be clearly brought in to assess cutting down of the estimate capacity of the area by the project.

After the manufacturing operation have started and product is manufactured through a process of Life Cycle Management (LCM), we can claim that the product has been analysed from "Cradle to Grave" which include all Production, Transportation, Use and final disposal stage to asses the cumulative amount of material and energy it uses in and on pollutant it generates. This shall also ensure that the entrepreneur remain aware and responsible for their product through out their Life Cycle.

LCM provides for the development of monitoring mechanism so that Environment Friendliness is maintained through and regular monitoring of Disaster Management and Emergency norms which remains mandatory.

NGOs', Public and Judiciary play very significant role in enforcing LCM. In India on demand from Public and NGOs' Judiciary has pronounced some landmark judgements concerning of Vehicular pollution through compulsion of adopting vehicular emission norms (compared to best available in Europe) on much advanced dates compared to stipulated schedule to bring in improvements in Ambient Air Quality. Landmark Judgements were also pronounced on environmental considerations in case of operation on Aqua culture farms in India, non-clearance of some highly impacting Industrial Projects, enforcing clean production technologies, from existing polluted technologies etc.

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of these services in India & Abroad. Including international organizations such as World Bank, IFC, Asian Development Bank, etc, etc.

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Widely travelled abroad in connection with Environmental studies & presentations in international fora . Presented number of papers on Global Climate Change, Biological / Green monitors, Partnerships for Sustainability, Logic & Logistics of Green purchasing etc etc.