



Institutional supply, market cultivation, and the development

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Description

Cumulative population growth on this planet is compressing the hopes of sustainability of species communities at all biodiversity zones on this world. One among such biodiversity zone is "Aquaculture and Marine ecosystem", where millions of species transferring their culture or fertility to their offspring for sustaining planet life science. Aquaculture and Marine ecosystem are playing vital role in providing employment, nutritious food, coastal tourism, huge exports and foreign currency etc. In recent years, million tons of pollutants generated with biased practices of human activities shipping into production zones (Benthos or sea bed or ridge or bottom of any surface water body) by catastrophes (Climate change impediments) is demanding a ministerial intervention for achieving sustainable production to meet the demand of seafood under affordable prices. In this contest, governments are pouring billions of rupees or dollars as subsidies to maintain quality for nutrition, safety of community (industry) employment, waste reduction at handling or storage or packing or bio extracting areas and production zones (marine or capture or cage culture). Island and coastal connected countries, which are profiting more with oceans (Seas), sturdily lose their economic system under huge pressure with pollutants. This study elevates the "requirement of innovative technologies" for bringing sustainable practices to entire communities including trade and production" in any specified area.

Consequences of Climate change with cumulative waste discharges by mature population and the indefensible utilize of resources (agriculture lands, Water reserves, axing forest for wood etc.) are strongly resulting the degradation of nature ecosystem every corner on this planet (land and water). This is strongly devastating economic sustainability and its origins of peace in this world both on land and in water. As we aware that, the geographical structure of land is compressing year by year with actions made by increased temperature (Global Warming), which is strongly muting the sustainability of "aquaculture (capture fisheries), biological production levels and marine ecosystems" at national and international level. As we aware that 90% of the earth's biomass hold by oceans, which are covered 71% on this planet? The constant discharges of air pollution by human activities (breathing, industrial, cooking, transportation etc.) reaching the surface of aquaculture zones because of "the early heating capacity of earth than water (aquatic zones. These magnificent changes are

constantly varying the actions of environment and framing ocean secrets like Bermuda triangle, Nevada Triangle etc.

Flag Their Nations Sovereign

In recent years, the global climate change consequences became a curse to all the dependent communities like fishermen, business and economies, especially island communities. Island governments are more depend on oceans for keeping strong sustainability in their employment, household income, nutrition levels, purchasing power, exports, foreign currency etc. to flag their nations sovereign by achieving GDP growth. Another side, sea or ocean shore connected 144 nations are enjoying autonomy provided by nature to their citizens, organizations (fishing, shipping, exporting etc.) for reducing the stress in other parts of their econom.

Climate Change fretfulness on aquatic life: planet water bodies are the major source for providing life to million water species. They are the part in the Gross Domestic Products in several nations with a contribution of 82.1 million tons of aquatic animals, 32.4 million tons of aquatic algae, 26 000 tons of ornamental seashells and pearls. Cumulative waste discharges of Species (including human discharges) and climate change impediments (flash Floods, gales, tornados etc.) are gathered 4 to 12 million tons of waste (Reference 05) (plastic, sewerage, sewage, silt, industrial chemicals persistent organic pollutions, oil spills, marine letters etc.), Naturally-Occurring Radioactive Materials (NORM) with mining activities etc. are entering into capturing (aquatic) fisheries zones (ponds, dams, seas, oceans etc.). In this phenomenon, the magnificent changes are occurring in aqua plants growing areas, food web, coral reef, sea or ocean bed etc. also, the silt (mud), submerged containers (accounts 10000 every year) (Reference 06) is spreading its color and odor rapidly to other zones lead to mount acidification levels, bleach, migrations and deaths of fish. More than one million sea birds, lacks of turtles and mammals are dying every year. This is increasing the unit catchment value (time per catching one unit) of fisherman community, which is derivation for overfishing and destruction of coastal and marine habitat. Many in 260 million fisherman community are not directing their offshore to fishing activities, especially in marine and coastal zones because of loss or stress mounted by high density catastrophes with climate change. This is because of huge amount of air pollutions on ocean atmosphere.

Fisherman Community

CO2 sinking-costing more: Global air pollution levels are mounting year by year and are poignant to ocean surface because water part of planet is too cool than land part. The maximum percentage of atmospheric CO2 pollution levels dissolved in to ocean or sea (surface of water bodies) to frame carbolic acid, whose density is strongly linked with wind-stress and estuaries. this phenomenon is increasing Acid levels or acidification levels on surface water layer and alacrity the bubble formation and turbulent boundary layer (TBL) whose involvement is vital in spreading penetrating radiation to other layers (Buffer layer, Viscous sub-layer etc.) under one Diurnal cycle. In some cases, the acidification, outline hotspots, water spouts lead to acid and fish rains. This is also one of the reasons for manipulating in setting and escalating density (number) of cyclones or typhoons or hurricanes, monsoons, El Nino and La Nina.

Apart from the above, the ions (Carbonate, Bicarbonate, Hydrogen etc.) released in the process of reactions (ocean current, salinity, temperature) with water are releasing more kinetic energy and thermal energy by conduction with wind stress (Reference 08), shear and micro breaking etc. throwing challenges to sustainability of all marine ecosystem and aquatic life at one side. In another side, expanded eutrophication or mangrove (growth of plant life) or contaminations in water bodies due to run-off from the land at the time of floods under nourishing (low growth) aquatic animals, seashells and pearls.

Historically, fisheries are not only source of 3.3 billion people protein food, but it is also livelihood for 59.5 million of coastal communities, especially island. Governments are captivating high stress and strain to balance the production and demand. The stress and

strain with pollutants in surface water bodies stupidly mounting hypoxia with chemicals, Dropping the pH values, dead zones and acidification is the origin for increasing the inflation (reducing number of working days/hours, investment cost, catching and processing cost per one unit, price at consumer place etc.). To overcome the above crisis, communities are adopting illegal practices like overfishing, illegal fishing, un-reporting, waste discharges at tourism activities etc., which is wasting around \$35 billion subsidy budget in all government budgets including industrial fishing, social welfare schemes, fuel subsidies, medical schemes, vessel purchasing etc. These unfruitful efforts also fallen biological sustainable levels from 90% in 1974 to 69% in 2013 and stocks 90% in 1990 to 65.8 in 2017. It is the biggest curse to all exporting industries and economies. Asian countries