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## Estimation of carbon credits of fishing boat diesel engine running on diesel-ethanol-bio-diesel blends with nano alumina doped ceria-zirconia

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**Description** Carbon credits are a tradable permit scheme under United Nations Framework Convention for Climate Change (UNFCCC) which gives the owner the right to emit one metric tonne of carbon-dioxide equivalent. They provide an efficient mechanism to reduce the greenhouse gas emissions by monetizing the reduction in emissions. This reduction in emissions of fishing boat diesel engine such as CO, CO<sub>2</sub> and NO<sub>x</sub> from the values of diesel was converted into carbon credits for diesel-ethanol-bio-diesel blends with nano additives. These blends with nano additives such as alumina doped ceria-zirconia provides an excellent opportunity for mitigation of Green House Gas (GHG) emission and reducing global warming for fishing boat diesel engines. A study was undertaken to calculate Global Warming Mitigation Potential (GMP) and thereby earning carbon credit from running the engine using diesel-ethanol-bio-diesel ...

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