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ECO-FRIENDLY GREEN TRANSPORT-IN INDIAN CONTEXT

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ABSTRACT

Green Transportation means any kind of transportation practice or vehicle that is eco friendly and does not have any negative impact on the environment. Indian's cities have expanded and are likely to faster grow in the future. The result of high growth rate, the number registration of new vehicle is expected to increase continuously. Many serious measures have taken in India to reduce vehicle emission in last two decades but still poor quality of air and public health problems are prevailing and there is need to control such emission in such developing country i.e. India. Many Indian cities have been ranked among the most polluted in the world. Vehicles are responsible for the majority of urban oxides of nitrogen (NOX) emission and 30-50 percent of particulate matter (PM) emission, in addition to significant hydrocarbons (HC) and carbon monoxide (CO) emission. The problem is exacerbated by the preference of the diesel cars in India due to Diesel subsidies. Currently new diesel cars are allowed to emit much more NOX and PM than gasoline cars. The continued growth of the transport sector may play vital role for the further economic growth, but it creates high level of Air Pollution problem through vehicular emissions. Hydrocarbon, carbon mono oxide, and nitrogen oxide, PM and carbon dioxide are a critical issue that has to be tackled on a war footing. The Green highway policy will help in making India pollution free. Increasing vehicular emissions leading to poor air quality have significant negative impact on public health. Traffic related air pollutions especially PM and NOx, has been shown to lead to premature morbidity and mortality. A study supported by the WHO estimated about 154,000 people died in India in 2005 as a result of ambient fine particulate matter pm 2.5 alone. This number has most likely increased since 2005 .A National Automobile pollution and fuel Authority responsible for setting and enforcing vehicle emission and fuel quality standards should be set up, India needs to established a robust Inspection and Certification (I&C) regime to ensure safety, road worthiness and emission performance of in –use vehicles. Emission and safety standards should be set up under the motor Vehicles Act. Green highway is a new concept that includes a roadway design integrating the functionalities of transport and ecological sustainability. The entire process of planning, design and construction of the roadways comes with the inclusion of an environmental approach. The aim of this concept is that growth and development should go hand to hand with sustainability of the eco-system, environmental balance and protection public health.

KEYWORDS: Energy-Efficiency, Carbon-Intensity, Emission, Environmental Balance, Economic Growth.