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Economically viable and eco-friendly road construction: Indian context

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With advances in science and technology, the use of non-decaying materials such as plastic, blast furnace slag, fly ash, scrap tires, mine wastes and marble the advancements in the field of road construction technology, the construction of rehabilitated roads, which support environment providing long durability to road infrastructure is required utilizing alternative materials, industrial and construction wastes and by products, facilitating road travel, travelers comfort and safety together with cost effectiveness and sustainable development. It is the design, commercialization and the use of processes and products in a way that reduces pollution, promotes sustainability and minimizes risk to human health and the environment without sacrificing economic viability and efficiency. Go green movement is gaining strength with increased global warming and climate change. Going green in transportation projects implies environment friendly construction of roads with the availability of alternative materials and the unique question of disposal of non-decaying waste posing a problem for environmental protection. With increased industrialization and growth of population with increasing quantities of waste world over together with increased demand for traditional road construction materials such as bitumen, cement and aggregate. The construction industry is being fuelled by global trends and national projects like smart cities wants to create such designs. Green buildings are the new trend in the field of architecture and civil engineering. Green road construction technology aims at low cost road construction, offering employment opportunities to the masses generating income at the disposal of the people involved, thus, improving the standard of living of the community at large. The technology also leads to appropriate and optimum resources utilization enhancing the country's potential to grow faster by eliminating the possibility of resource erosion.

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