

6. Improvement and adoption of methods for saving carbon footprints during construction of roads to safeguard the environment.

Works undertaken by PWD

- i. Construction of Roads and Highways for the state of U.P. and MORTH, GOI.
- ii. Construction of Minor Bridges and Major Bridges in the State of U.P. and as a Deposit work for other agencies/departments.
- iii. Construction of Buildings in the State of U.P. & as a deposit work for other agencies/departments.
- iv. Technical Guidance in infrastructure development to all Construction agencies& departments regarding Specifications & execution.
- v. Rehabilitation, Repair and maintenance of Roads, Highways, Bridges and Buildings.

Present Scenario

Presently State is executing infrastructure projects, from the planning stage to execution stage, without giving any consideration to the aspect of Carbon Footprint.

Though few steps have been recently initiated to reduce consumption of natural resources like stone, boulder etc. But a holistic approach has yet to be developed to reduce carbon footprints and earn carbon credits. .

Reasons for the need to adopt new methods for reducing Carbon Footprints-

- i. There is requirement for an integrated planning by all Infrastructure/ Road development agencies to understand the adverse Environmental impacts, which are being generated due to massive scale of mining, excavation and exploitation of petroleum products in road construction.
- ii. This consumption is creating large amount of carbon footprints due to large amount of energy consumptions. While the advanced countries have moved ahead to save energy by using innovative technologies, which are eco friendly, consume less energy, thus create lesser carbon footprints and earning lots of carbon credits.
- iii. This concept has none or few takers in the country, which is not good for sustainable development. The road industry has to evolve in such a way so that there is substantial reduction in carbon footprints.
- iv. Services of firms are required to suggest measures for adoption of technologies and methods, which will lead the road industry in the direction of reducing carbon footprints and facilitate earning of carbon credits in a sustainable way.