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Effect of Surface Transport on Environment

Impact des transports terrestres sur l'environnement

Der Einfluss von Transportwegen auf die Umwelt

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Development in surface transport mainly the commissioning of railways is considered to be an index of Economic, Social and Commercial progress in developing third world countries. But with the never ending progress in such directions, the tranquility of the environment and stability of the ecological balance is disrupted causing increased stress and anxiety to the people concerned with the protection of environment. All the recorded facts about ecology in the present study, raises for discussion serious and complex options and issues about the basic concept of development projects by resource utilisation in third world countries in achieving goal of self sustainable industrial power. suffering in the process permanant intangible losses of unimaginable magnitudes. In the present case study the focus has been made on the 189 Kms long railway track in North Western region of Karnataka State, in South India, where the railway track passes through 42 Kms of plateau section, 55 Kms. of ghat section and 92 Kms. of plain section. The track alignment consists of 50 rock cut tunnels and 15 cut and cover tunnels, totalling to about 11 Kms. Apart from this the track passes through via ducts with high piers, and large number of bridges, about 91 major bridges and 610 minor The tunnels follow the alignment curvatures as sharp as 8° M Radius) and the difficult strate necessiates using heavily reinforced concrete lining with a maximum gradient in slopes (ghats) 1 in 50. Even though this engineering feat is in fact a remarkable achievement for the people of this region and a land mark in the direction of man's superiority in the quest for development, making the environment a mute testimony to man's aggression on nature which is vividly felt on climate, birds, wild life, vegetation, flora and fauna. During the construction of the railway track apart from the movement of vehicles, 1200 tons of gelatine explosive was used for rock cutting and other engineering works. Thus permanently distrurbing the birds and wild life distribution in the area. The railway track passes through two state forests namely Kenchakumari state forest and Kagenari state forest, in the areas where the railway track passes, there is a marked migration of elephants, bison, barking deer and wild bore to other marked state forest namely kabbinale state forest, thus causing disturbance in the wild life pattern due to uneven distribution of wild life in the newly migrated area. The notable among the birds which has suffered destruction and migration to other forest areas are the gadwall, shoveller, crane and grey heron. Forest in the viscinity of the track has suffered injuries due to forest fire caused by colonies of construction labourers, during construction and after commissioning of the track, with the movement of goods and passengers traffic, the serenity of the nearby areas of the forest is being explored by tourists and entreprethus signaling more environment degradation to come.





commissioning of the track the plywood species of trees are facing destruction and extinction by the traders (canarium strictum, symplocos spicate). Apart from this flora and fauna in the area have been threatened to extinction by the mankind, out of 54 varieties of shrubs and climbers Acacia Concinna, Callicarpa arborea and clematics gouriacca is facing extinction out of the 22 monocotyledon varieties mainly the calamus thwaiteri and caryota ureus have been threatened with extinction. Other floral varieties which have been threatened with extinction are oleadiocia, syzygiumspp, Diospyros, Microphylla and vateria inica. The dissappearance of aquatic life in the streams and rivers in this region (Hamilton, Peters, Catlacatla). Traces of carbon and oxides of nitrogen in the atmosphere not present earlier, and man made land slides, falling of rock boulders, and soil erosion due to deepcuts, and high embankments are all testimony to ecological mismangement breaking age old concept of coliving and existence.

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