

**Construction of Roads on new  
embankment and in rock cutting.**

**Government of Maharashtra,  
Public Works and Housing Department,  
Circular No. MIS-1077/CR-147/Desk-4,  
Mantralaya , Bombay - 32. D/- 4-4-1978.**

Guidelines have been prescribed in Chief Engineer Circular No. 6 of 1974 issued vide Government, Building and Communications Department's No. PLN- 1071/ 135440/P-IC, dated. 13.1.75 , for adoption of crust and black topping treatment under different conditions of rainfall and C.B.R. of sub-grades. The treatments have been suggested separately for new construction of roads and strengthening of existing road pavements. It has, however, been brought to the notice of Government that the roads constructed on new embankments and cuttings by following these guidelines develop ruts, pot holes and undulations during the first monsoon itself.

- i) In case of newly constructed embankments stage construction may be adopted i.e. traffic may be allowed on the embankment for one or two monsoon depending on the height of the embankment and the type of the soil used in the embankment by constructing only the W.B.M. course with a suitable dust proofing treatment. The crust for intermediate traffic should be designed for present day traffic subject to a minimum thickness of 30cm. on State Highways. Final wearing surface of B.M. or A.C. or other bituminous courses may be provided after making good the settlement, if any.
  - ii) In case of cuttings, stage constrictions as stated in (I) above may be adopted. Proper attention should be given to provide adequate drainage by providing deep side gutters below the sub-grade level. In case of rock cuttings undulations in rocky sub-grade should be filled by lean bituminous mixes and the base courses should also be constructed in bituminous construction. The entire formation width of the road in the cutting portion should be provided with bituminous surface in case of important roads and with metal surface in case of less important roads.
3. The above instructions may please be followed scrupulously future while constructing roads on new embankments and cuttings.

Sd/-

(M. G. Dharap )

for Chief Engineer to the Govt. of Maharashtra.