

No. RW/PL-17(19)/77-NH(Std.-Vol. III)

*Dated the 6th May, 1987*

To,

The Chief Engineers of all States and Union Territories dealing with roads

Subject : Circulation of selected extracts from the State of Art Report of Ministry's R&D Scheme No. R-7 'Study of efficacy of various measures including drains for lowering/cutting off water table for different soils'

As you are aware, rise in water table in-efficient drainage and saturation of sub-grade by capillary action etc are some of the common causes of poor performance or failure of Road pavement. Such situations can be prevented and the sub-grade kept in a relatively dry condition if efficient surface and sub-surface drainage and capillary cut-offs are provided. Some of the preventive measures in this direction can be provision of lined and unlined ditches, interceptor drains, blanket drains, boulder core drains, under drains, polyethylene/tarfelt/asphalt membrane cut-offs and sand blanket cut-off, besides other temporary measures.

Many of the methods have been brought out in the State of the Art Report got prepared by the Ministry under the above referred research scheme. Brief information regarding such provisions and sketches of typical lay-out of these measures as indicated in the State of the Art Report are enclosed for information and use in appropriate field situations. These guidelines and sketches are by no means exhaustive but are more or less indicative of the types of measures available for adoption. Nevertheless it is felt that these may prove quite helpful to the field engineer many occasions.

It is requested that the various measures of lowering and cutting-off water tables may be tried in the field and your comments and experiences about the suitability and efficacy of these techniques may be intimated to the Ministry as a feedback report.

Note : Enclosures not attached. However, copy of the note can be obtained from concerned Deptt. on request.