

No. PL-67 (17)/68-SP

*Dated the 7th June, 1968*

To

The Chief Engineers of all States

Sub: Loading condition of bridges with T-head or hammer head piers during erection

The design of a bridge has to be checked for stress conditions during various stages of its construction. The forces to be considered for checking of design for any stage of construction would be distinct from those acting on a completed bridge.

2. It is suggested that while checking the designs for conditions during erection following considerations may be kept in view.

2.1. The load combination and permissible stresses may be taken as per provisions of Indian Roads Congress Code of Practice.

2.2. Only such dead loads should be considered as would be existing at that time, and so dead load due to wearing coat, footpath, slab, railing etc. can be omitted if they are not there and contractor gives an undertaking not to put them during that stage of erection.

2.3. As far as live loads are concerned only such live loads need be considered as would be present during erection operations. This may include a number of men, materials, tackle, etc. If any materials for casting etc. are kept on the girders, their effect has to be considered. It should be ensured that no men or materials whose effect has not been considered should remain on the span at the time of launching or any other erection operation. A note to this effect should be given on the drawing.