

No. RW/NH-34154/1/97-S&R

Dated: the 12th November, 1997

To,

All State Govts./U.Ts.; Chief Engineers of States/U.T. (dealing with National Highways & Other Centrally Sponsored Schemes); Director General (Works), Central Public Works Department; Chairman, National Highways, Authority of India; Director General Border Roads

Subject : Use of Thermo-Mechanically Treated (TMT) reinforcement steel in construction of bridge projects on National Highways and under other centrally sponsored schemes

It has been brought to the notice of this Ministry that the steel manufacturers in India have started producing as a new type of steel using a different process of production. These new type of steel reinforcement bars, commonly known as TMT bars are available in different grades of strength and different diameters. The Ministry has also been informed that the TMT re-inforcement bars have better performance characteristics compared to HYSD bars. These grades of TMT steel have been included in the latest revision of IS:1786 which also supersedes IS:1139.

2. This Ministry's Standard Specification and Code of Practice for Road Bridges, (Section III), i.e. IRC:21 permits use of high strength deformed bars hot rolled conforming to IS:1139 and cold worked conforming to IS:1786. In view of revision of IS:1786 it has now been decided that TMT bars of grade Fe 415 can be used for construction of bridges on National Highways and under other centrally sponsored schemes as a substitute for the HYSD bars of the same grade as mentioned in IRC:21. The permissible stresses and other design parameters in case of TMT grade Fe 415 shall remain same as contained in IRC:21.

3. It is requested that the above may please be brought to the notice of all concerned officers in your organisation/Deptt.

4. Receipt of the circular may please be acknowledged.

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