

Circular

Circular No. CE& AS/ TA-1/EE (D&T)/2016-17/D-126 dated 08.08.2016 issued earlier vide this office regarding use of steel for PWD works is hereby withdrawn.

For all building, road and bridge works executed by PWD, henceforth, as per Ministry and Road Transport & Highway S&R (B) section New Delhi letter no. RW/NH-34066/09/2017-S&R (B) dated 12.02.2021, it has been decided to allow steel produced from ore/billets/pellet/melting of scrap subject to fulfillment of conditions mentioned below. Accordingly, clause 1009.3.1 of Ministry's specification for Road and bridge works has been amended as under:

For plain and reinforced cement concrete (PCC and RCC) or pre-stressed concrete (PSC) works, the reinforcement/ unmentioned steel as the case may be, shall consist of the following grades of reinforcing bars:

Mild steel (MS): Grade-1 (conforming to IS 432)

High strength deformed Steel (HSD): Fe415, Fe415D, Fe415S, Fe500, Fe500D, Fe500S, Fe550, Fe550D & Fe600 (conforming to IS 1786)

If any grade of steel given above is not available steel of next higher grade may be used.

For seismic zones III, IV and V, HSD steel bars having minimum elongation of 14.5% shall be used.

For seismic zones III, IV and V, HSD steel bars shall possess following properties:

- The actual 0.2% proof strength of steel bars based on tensile test must not exceed their characteristic 0.2% proof strength by more than 20%
- The ratio of the actual ultimate strength to the actual 0.2% proof strength/yield strength shall be at least 1.15.

All the manufacturers/ suppliers, as the case may be, shall supply the purchaser or his authorized representative with the certificate stating the process of manufacture and also the test sheet signed by the manufacturer giving the result of each mechanical test applicable for each lot of the material supplied and chemical composition. Sample shall be got tested in the NABL accredited laboratories only, by Executive Engineer concerned. It shall be ensured that all the test results conform to IS 432 (MS) or IS 1786 (HSD).

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Only new steel shall be delivered to the site. Every bar shall be inspected before assembling on the work and defective, brittle or burnt bars shall be discarded. Bar with cracked ends shall be discarded.

This shall be applicable for all Building, Road, Bridge and other works executed by Public Works Department of Rajasthan. This circular will be implemented from the date of its issuance.

Sanjiv Mathur
6/10/2021
(Sanjiv Mathur)

CE (Road) & AS PWD
Rajasthan Jaipur

No. ACE(P)/EE(SS&C)/2021-22/D- 17

Dated: 06/10/2021

Copy to following for information and necessary action please:

1. PS to Pr. Secretary, PWD, Govt. of Rajasthan.
2. PS to Secretary, PWD, Govt. of Rajasthan.
3. Chief Engineer cum Addl. Secretary, PWD, Rajasthan
4. Chief Engineer NH/Road/Build/SS/PMGSY/QC PWD Rajasthan
5. MD, RSRDCC Ltd. JhalanaDungari, Jaipur.
6. Financial Advisor, PWD, Rajasthan.
7. Addl. Chief Engineer, PWD, Zone All
8. Superintending Engineer PWD Circle All
9. Executive Engineer PWD Division All

Sanjiv Mathur
6/10/2021
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