

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(Railway Board)**

**MANUAL ON THE DESIGN AND CONSTRUCTION OF
WELL AND PILE FOUNDATIONS**

**ADOPTED -1985
(ISSUED BY RDSO, LUCKNOW)**

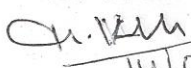
ADDENDUM & CORRIGENDUM SLIP No. 3 Dated 14.01.2013

Replace existing Para 1.8 as under:

1.8 Well Steining shall be built of masonry or cement concrete not weaker than M-15 grade. Sufficient bond rods shall be provided to bond the units of the steining during the progress of construction. Bond rods shall be distributed evenly on both faces of steining and tied up by providing adequate horizontal hoop reinforcement. For masonry steining and for concrete steining of small thickness, bond rods may be provided in one row in the center only and tied up by providing plates or hoop reinforcement.

For plain concrete wells, vertical reinforcements (whether mild steel or deformed bars) in the steining shall not be less than 0.12% of gross sectional area of the actual thickness provided. The vertical reinforcements shall be tied up with hoop steel not less than 0.04% of the volume per unit length of the steining."

**LUCKNOW
Dated: 14.01.2013**

BY ORDER

14/01/2013
(H.K.Singh)
**Executive Director/B&S
R.D.S.O/Lucknow.**