

NORTH EASTERN RAILWAY

CE'S CIRCULAR NO.P.W./33 OF 1963.

CASE NO.W/364/1/3/Track/Pt.II.

RECORDS OF MATERIALS UNDER TRIAL

It is seen that proper records of the 'Materials under Trial' are not being maintained in the offices of PWIs, AENs and DENs and Periodical reports as prescribed in para 620 of the Indian Railways Way & Works Manual are not being submitted by the District Engineers to the Chief Engineer.

The following instructions are issued and all concerned must ensure strict compliance:-

1. Registers: Registers of materials under trial duly indexed shall be maintained by Distt. Engineers, Asstt. Engineers and Permanent Way Inspectors. Sufficient number of pages should be kept for each item so that the remarks may be continuous. Each item of material should be entered on a separate page, a reference being given to Chief Engineers' letter No. etc. All entries should be made by the District Engineer, Asstt. Engineer or Permanent Way Inspector in their own hand writing and each note should be signed and dated by them.

2. Particulars of entries: (i) Particulars regarding each item should be complete in regard to:-

- (a) Name of materials
- (b) Site where laid
- (c) Date of laying
- (d) Object of trial
- (e) Number put in
- (f) Nature, depth & condition of ballast
- (g) Nature of soil
- (h) Width & height of bank.

- (i) Whether the track is well drained
(j) Track details:
 (1) Section of rail .
 (2) Kind of sleepers.
 (3) Sleeper density .
(k) Annual rainfall.
(l) Other relevant details

In the case of wooden sleepers under trial, the following additional information should also be entered.

- (a) Kind of wood
(b) If treated particulars of treatment
(c) Dimensions of sleepers
(d) Source of supply
(e) If in yard, in which points
(f) Nature of soil
(g) Whether white ants prevalent in section
(h) If dog spikes, round spikes, keys, bearing plates etc. are used.
(i) Condition of sleepers when received
(j) Details of cracks, shakes, etc. when received
(k) Whether well seasoned when received
(l) Whether the sleepers have end-binding or end bolts etc.
(m) Whether heart side on top or underneath.

(ii) A detailed note regarding the behaviour of the materials under trial and the extent to which the trials are producing the desired result should be entered in the register every quarter or more frequently if necessary. Particulars as regards amount of creep since last inspection, how much creep adjustment done and when; amount of wear on wing rails of crossing switches etc. etc. if relevant should also be entered.

3. Trial lengths: Where practicable, the materials under trial should be laid near the Distt. Engineer's headquarters. In case of sleepers under trial, a special K.M. or KMs. should be utilised for this purpose.

4. Indication plates: Materials under trial should be indicated by plates of 30"x18" fixed on both the ends of the trial length, the description and the number of the item, date laid and the site being shown thus.

Reconditioned sleepers 1000 Nos. January: 1962, KM 72 to KM 73/5.

5. Removal of materials under trial: In every case where any material under trial has to be removed because of relaying or alterations, the Distt. Engineers should advise the Chief Engineer for further instructions. When any material is removed for any cause, the P.W.I., AEN and Distt. Engineer should enter a full note in the register on its condition after thorough examination.

When a material under trial is relaid at another site, the previous history of the material should be entered in the new register.

6. Submission of Register: The P.W.I. should forward his register to the AEN every quarter. The AEN will scrutinise it and return it to the PWI with suitable remarks. The AEN will forward his register to the DEN every quarter. The DEN will scrutinise it and return it to the AEN with his remarks if any. The DEN will submit their registers to the Track Supply Officer annually as per programme given below:-

DEN/HIR(W) 0
DEN/SEE 0
DEN/PSB 0 ..15th.January:
DEN/SPJ 0

DEN/LJN 0
DEN/GD 0
DEN/IZN 0 ..15th.June;
DEN/FGR 0

The Track Supply Officer will scrutinise these registers and if necessary arrange examination of the materials under trial either by himself or by the ATSO or Track Supdt., and make suitable entries in the Materials under Trial Registers of the Head Office. The District Engineer's register will be returned after scrutiny. The Head Office registers will be put up to the Dy.Chief Engineer/Chief Engineer as and when necessary.

7. Materials under trial lists: A list of all materials under trial giving quantity and site will be prepared and handed over by the PWIs, AENs and DENs to their successors at the time of transfers.

8. A sample page of the register to be maintained is enclosed for guidance and compliance.

REGISTER OF MATERIALS UNDER TRIAL OF DISTT.ENGINEER/
ASSISTANT ENGINEER/P.W.INSPECTOR.

Trial of

Reference of Chief Engineer's letter ordering trial:

- (a) Name of material
- (b) Site where laid
- (c) Date of laying
- (d) Object of trial
- (e) Number put in
- (f) Nature, depth & condition of ballast
- (g) Nature of soil
- (h) Width & height of bank

- (i) Whether the track is well maintained
- (j) Track details
 - (1) Section of rail
 - (2) Kind of sleepers
 - (3) Sleeper density
- (k) Other relevant details
For wooden sleepers under trial only.

- (a) Kind of wood
 - (b) If treated
 - (c) Dimensions of sleepers
 - (d) Source of supply
 - (e) If in yard in which track
 - (f) If in points under which points
 - (g) Whether white ants prevalent in section
 - (h) If dogspikes, round spikes, keys & bearing plates are used.
 - (i) Condition of sleepers when used
 - (j) Details of cracks, shakes etc. when received
 - (k) Whether well seasoned when received
 - (l) Whether sleepers have end binding or end bolts etc.
 - (m) Whether heart side on top or underneath.
- Note on behaviour of material under trial.