

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No. 2004/CE-II/CS/1

New Delhi, dt. 14.12.2005.

The General Managers (Engg.)

CR, ER, ECR, ECoR, NR, NCR, NER, NFR, NWR, SR, SCR, SER, SECR, SWR, WR, WCR and Metro Railway/Kolkata.

The General Manager (Const.), N.F.Railway, Guwahati.

The CAO/Const. All Indian Railways.

The CAO/Const., Metro Railway, Mumbai & Chennai.

Managing Director, Konkan Railway Corporation Ltd, Rail Bhawan, New Delhi.

Managing Director, IRCON, New Delhi.

Managing Director, RITES, New Delhi.

Managing Director, DMRC, N.B.C.C. Building, Pragati Vihar, New Delhi.

Managing Director, CONCOR, New Delhi.

The Chief Project Officer, DMRC, Pragati Vihar, New Delhi.

Director, IRICEN, Pune.

Director, IRIEEN, Nasik.

Director, , IRISSET, Secunderabad.

Director, IRIMEE, Jamalpur.

Director, IRITM, Vill. Kanausi, Hardoi, Manik Nagar, Lucknow.

Director General, Railway Staff College, Vadodara.

FA & CAO, All Indian Railways.

The Director General (Track), RDSO/Alambagh, Lucknow.

Chief Commissioner of Railway Safety, Lucknow.

Genl. Secy., AIRF, Rail Bhavan.

Genl. Secy., NFIR, Rail Bhavan.

Genl. Secy., IRPOF, Rail Bhavan.

Genl. Secy., FROA, Rail Bhavan.

Genl. Secy., AIRPFA, Rail Bhavan.

Genl. Secy., DAI (Railways) Rail Bhawan, New Delhi.

Sub: Advance Correction Slip No.99 to the Indian Railways Permanent Way Manual.

Ministry of Railways (Railway Board) have decided that correction/addition as indicated in the enclosed Advance Correction Slip No. 99 dated 14.12.2005, to relevant para of the IRPWM, be made.

Receipt of this letter may please be acknowledged.

**(H.L. SUTHAR)
Director Civil Engg.(P),
Railway Board.**

No. 2004/CE-II/CS/1

New Delhi, dt. 14.12.2005.

Copy to : CRB, ME, ML, MS, MM, MT, FC, Secretary.

AM(CE), AM(W), AM(Budget), AM(Elect.), AM(Fin.), AM(Sig.), AM(Plg.), AM(MS), AM(Mech.), AM(PU.), AM(Tele.), AM(Traffic), Adv.(Vig.), Ad.(L&A).

EDF(X)-II, ED(Safety), EDCE(P), ED(Works), EDV(E), ED(Proj.), ED(DMRC), EDTK(M), EDTK(MC), EDTK(P), EDCE(G), EDCE(B&S),

OSD(ME), DTK(MC), DTK(M), Dir.(Works) I & II, DLM, DCE(B&S), DVE-I & DVE-II, IPWE(I).

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No. 2004/CE-II/CS/1

New Delhi, dt. 14.01.2006.

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CR, ER, ECR, ECoR, NR, NCR, NER, NFR, NWR, SR, SCR, SER, SECR, SWR, WR, WCR and Metro Railway/Kolkata.

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Genl. Secy., FROA, Rail Bhavan.

Genl. Secy., AIRPFA, Rail Bhavan.

Genl. Secy., DAI (Railways) Rail Bhawan, New Delhi.

Sub: Advance Correction Slip No.99 to the Indian Railways Permanent Way Manual.

Ref: Board's letter of even no dt.14.12.05.

Enclosed please find herewith a corrected copy of Advance Correction Slip No.99 which was circulated vide Board's letter of even no. dated 14.12.05.

Receipt of this letter may please be acknowledged.

**(H.L. SUTHAR)
Director Civil Engg.(P),
Railway Board.**

INDIAN RAILWAYS PERMANENT WAY MANUAL
ADVANCE CORRECTION SLIP No. 99 dated 14.12.2005

1. The existing **para 107 (1)** of Indian Railways Permanent Way Manual shall be replaced by the following:

Para 107 (1) – Trolley Inspection: The entire Sub-division, should be inspected by trolley once a month, as much inspection as possible being done by push trolley. The entire Sub-division, in case of double and multiple lines shall mean all individual lines. The inspection by trolley should be intensive, which should include checking of attendance of gang, gang work and equipment and examination of gang charts/diary books with reference to the prescribed schedule of track maintenance. During his inspection, he should check the work done by one or two gangs in each P.W.I.'s jurisdiction and record the results of his inspection.

2. The existing para 212 of Indian Railways Permanent Way Manual shall be replaced by the following:

Para 212 – Records of material under trial: (1) CTEs of Zonal Railways may order limited trials of simple items which do not infringe with existing provisions of standard specification or instructions laid down in Manuals/Codes. Before undertaking the trial, complete scheme of trial should be well chalked out including the parameters to be periodically measured/checked, official to measure/check, periodicity of measurement/checking and proforma in which measurements/ observations to be recorded. CRS shall also be kept informed about such trials.

(2) The Zonal Railways should periodically inform RDSO about such trials to maximize advantage.

(3) Registers – Registers of materials under trial duly indexed shall be maintained by the Assistant Engineer; sufficient number of pages being allotted for each item.

(4) Particulars of entries – Particulars regarding each item should be completed in regard to:

- (i) Name of material.
- (ii) Kilometerage where laid.
- (iii) Date of laying.
- (iv) Object of trial.
- (v) Nature and condition of ballast.
- (vi) Nature and type of formation.
- (vii) Track details.
- (viii) Behavior.
- (ix) Any other relevant information.

In the case of items designed for improved track performance, notes should be made about the extent to which such appliances are producing the desired results, particulars being quoted, whenever possible.

(5) Trial Lengths – Material under trial should, where practicable be laid near Assistant Engineer's headquarters. In the case of sleepers under trial, a special kilometer or kilometer should be utilized for the purpose.

- (6) Indication Plates - Materials under trial should be indicated by plates of suitable dimensions fixed on the cess at either end of the trial length, the description and number of item, date laid and kilometrage, being shown thus

Reconditioned sleepers
Nos. 1000, January 1980
Km. 72/0 – km. 72/12

- (7) Removal of materials under trial – In every case where sleepers or other materials under trial have to be removed because of relaying or alterations, the Asstt. Engineer concerned should report to the Divisional Engineer and ask for disposal instructions. When material is removed for any reason, a full note should be made by the Assistant Engineer on its condition after through examination. When material under trial is removed and re-laid in another Assistant Engineer's length, the previous history of the material shall be copied in the register of the sub-division where it is now laid.
- (8) Submission of Assistant Engineer's Register to Divisional Engineer – The 'Materials under trial' register should be submitted by the Assistant Engineer to the Divisional Engineer as often as required. The Divisional Engineer will submit reports on trials carried out to the Chief Engineer, as may be required.
- (9) Permanent Way Inspector's Records – The Permanent Way Inspector shall maintain in manuscript form record of all materials under trial on his length with necessary particulars. Notes should be made therein at regular intervals. The Assistant Engineer shall scrutinize the records during his inspections.
- (10) The Divisional Engineer should take interest in the trials in progress in his jurisdiction and ensure that the stretch where such material is laid, is maintained to the desired standard.

3. The existing **para 502** of Indian Railways Permanent Way Manual shall be replaced by the following:

Para 502 – Alumino Thermit Welding of rails: Alumino Thermit Welding of rails may be carried out in accordance with the detailed procedure laid down in the "Manual for Fusion Welding of Rails by Alumino Thermit Process, September, 1996". A thermit weld done in situ shall be joggle fish plated with two clamps till tested as good by USFD.

4. The existing para 125 (1) of Indian Railways Permanent Way Manual shall be replaced by the following:

Para 125 – Safety of Track:- (1) The Permanent Way Inspector is directly responsible for the safety of the track. He shall be vigilant to locate faults in the Permanent Way and promptly remedy them.

The defects which are beyond his powers to remedy should be immediately brought to the Assistant Engineer's notice by the Permanent Way Inspector and mention of the same made in the half-yearly report on the condition of Permanent Way of the section".

5. The existing para 209 of Indian Railways Permanent Way Manual shall be replaced by the following:

Para 209 – Half-yearly report on the condition of Permanent Way:- (a) The Permanent Way Inspector shall submit half-yearly Reports on the state of track in his charge, to the Divisional Engineer through the Assistant Engineer in the format placed at Annexure-2/19.

(b) In this Report the Permanent way inspector shall make candid statement of the defects in the track, reasons for defects and proposals for rectifying them.

(c) The Assistant Engineer should check the track during his trolley inspections and verify the conditions mentioned by the Permanent Way Inspector, and also study the proposed remedial actions. Remedial actions as necessary should be ordered within his power or referred to the Divisional Engineer for further orders.

(d) The Divisional Engineer should scrutinize the half-yearly reports of the Permanent Way Inspector and the comments forwarded by the Assistant Engineer, and give his orders thereon to the permanent Way Inspector through the Assistant Engineer. The Assistant Engineer and Permanent Way Inspector should promptly attend to orders issued by the Divisional Engineer.

(e) Submission of half-year reports does not absolve the Permanent Way Inspector of this basic responsibility of maintaining the track in fit condition for the load and speed sanctioned for the section”.

6. Enclosed Annexure 2/19 may be added to chapter 2 of IRPWM Manual, after Annexure 2/18.

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HALF-YEARLY PERMANENT WAY REPORT

Report for the half-year ending

31st March }..... regarding the section of track under Permanent way inspector30th September }

Name..... Section.....

Hd.Qrs.....Km.....to Km.....

Item No.	Particulars of Item	PWI's remarks			AEN's remarks	DEN's remarks	Details to be entered under column Problem areas by PWI
		Major Important work done in last 6 months	Problem areas	Assistance required			
1	2	3	4	5	6	7	8
1	Track						Rails, fastenings, sleepers, ballast, formation and drainage.
2	Points and crossing						Details of turnouts requiring frequent attention
3	Bridges & approaches						Details of bridges having problem of creep, condition of sleepers and fittings
4	Level crossings						Details of level crossings having road surface and approach road requiring attention, slope of approach road, visibility, overdue overhauling.
5	Fencing and Boundary Post						
6	Imprest (Store/Cash)						Complete or not, any delay in supply/recoupment
7	Man power						Adequate or not, absence for sickness, seasonal absence, low output due to overage/higher average age, man says lost due to special features (such as patrolling etc.), vacancies.
8	Infrastructure						Availability of traffic block, working of material trains/ballast trains, machines for, maintenance and renewal works (their workings and shortfalls in schedule and problems, if any)

Item No.	Particulars of Item	PWI's remarks			AEN's remarks	DEN's remarks	Details to be entered under column Problem areas by PWI
		Major Important work done in last 6 months	Problem areas	Assistance required			
1	2	3	4	5	6	7	8
9	Vulnerable locations						
10	Engineering Material in ARTs.						
11	Small track machines						
12	Functioning of Reconditioning workshop for turnouts and SEJs						
13	Periodic Medical Examination/ Refresher of safety category staff						Details of staff overdue for Periodic Medical Examination refresher.
14	Encroachment on Rly. Land between stations						
15	Items to which special attention is directed in the interest of the safety of the travelling public.						Refresher to be made to previous items and where the supply of stores is involved, requisition numbers should be quoted.
15	Material under trial						Progress and performance