भारत सरकार (GOVERNMENT OF INDIA)
रेल मन्त्रालय (MINISTRY OF RAILWAYS)
रेलवे बोर्ड (RAILWAY BOARD)

****

No. 2018/CE-II/CS/1 New Delhi, dated 23.07.2018

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 General Manager/CORE/Allahabad.

The CAO/Const. All Indian Railways.
FA & CAO, All Indian Railways.
The General Managers (Engg.) – ICF/Chennai, RCF/Kapurthla, DLW/Varanasi, CLW/Chittranjan, Rail Wheel Factory /Yelahanka, Bangalore & DMW/Patiala.

The Director General (Track), RDSO/Alambagh, Lucknow.
Chief Commissioner of Railway Safety, Lucknow.

Managing Director, IRCON, New Delhi.
Managing Director, RITES, New Delhi.
Managing Director, DMRC, Metro Bhawan, Barakhamba lane, New Delhi.
Managing Director, CONCOR, New Delhi.
Managing Director, RVNL, August Kranti Bhawan, Bhikaji Cama Place, New Delhi.
Managing Director, DFCCIL, Pragati Maidan, Metro Station, New Delhi.
Managing Director, PIPAVAV Railway Corp. Ltd., Ist Floor Jeeven Tara Building, Gate No.4, Parliament Street, New Delhi.
Managing Director, MRVC, Church Gate station Building 2nd Floor, Mumbai – 400020.
Managing Director, RLDA, IRCON Office Compound, Next to Safdarjang Rly. station, Motibagh-I, New Delhi.
Managing Director, Konkan Railway Corporation Ltd, Belapur Bhawan, Sector-11, CBD Belapur. Mumbai. Pin - 400614.

Director, IRICEN, Pune.
Director, IRIEEN, Nasik.
Director, IRISET, Secunderabad.
Director, IRIMEE, Jamalpur.
Director, IRITM, Vill. Kanausi, Hardoi, Manik Nagar, Lucknow.
Director General, Railway Staff College, Vadodara.
Genl. Secretaries, AIRF, NFIR, IRPOF, FROA, AIRPFA, DAI (Railways) Rail Bhawan, New Delhi.

Sub: Correction Slip No.145 to the Indian Railways Permanent Way Manual.

*****

Ministry of Railways (Railway Board) has decided that correction/addition as indicated in the enclosed Correction Slip No.145 dated 23.07.2018, to relevant para of the IRPWM, be made.

Receipt of this letter may please be acknowledged.

23/07/18

(Pankaj Tyagi)
Director Civil Engg.(P)
Railway Board

No. 2018/CE-II/CS/1 New Delhi, dated. 23.07.2018

Copy to :

Sr. PPS/PS to CRB, FC, ME, MRS, MS, MT, M(Tr.), Secretary.

AM(CE), AM(Works), AM(Budget), AM(Elect.), AM(Fin.), AM(Sig.), AM(Plg.), AM(Staff), AM(Mech. Engg.), AM(PU.), AM(Tele.), AM(TT), PED(Bridge), PED(Vigilance), PED(Stn.Dev.Engg.) PED(Safety), Adv(Project), DG(RS), AM(C&IS), AM(T&C), AM(Comml.).

EDCE(P), EDTK(M), EDTK(MC), EDTK(P), EDCE(G), EDCE(B&S), ED(L&A)I, ED(Stn. Dev. Engg.) ED(Works), ED(W&P), EDV(E), ED(Project Monitoring), ED(Safety), EDF(X)I, EDF(X)II, ED/INFRA/Civil.
DTK(MC), DTK(M), DTK(P), DCE(B&S), DCE(B&S)II, Dir(Works)-I, Dir(Works)-II, Dir.Works(Plg.), Dir(LC), OSD(ME), DVE-I & DVE-II, Dir./TMS, IPWE(I).

Director/C&IS - for uploading on Railway Board website.

******

INDIAN RAILWAYS PERMANENT WAY MANUAL
CORRECTION SLIP NO.145 DATED 23.07.2018

1. The following Para i.e. 228 (4) is added below Para 228 (3):

228 (4) On single line sections with low traffic density (generally less than 10 GMT per annum), a modified 3 tier system of track maintenance as detailed at annexure 2/7 may be adopted with the approval of Pr. Chief Engineer.

2. A new annexure no. 2/7 to Para 228(4) is added in Chapter-II of IRPWM as under:

Annexure 2/7

Modified Three Tier System of Track Maintenance

To be adopted on single line sections carrying low traffic (generally less than 10 GMT per annum) and nominated by Principal Chief Engineer.

1. The Modified Three Tier System of Track Maintenance, to be adopted on section nominated for mechanized maintenance and carrying low traffic of generally less than 10 GMT per annum, shall consist of following three tiers.

I On Track Maintenance (OMU): This tier will be same as per para 228 (2) of IRPWM.

II Mobile Maintenance Gang (MMG):

(a) There will be one Mobile Maintenance Gang (MMG) under each SSE/P.Way (in overall charge) with a jurisdiction of about 70-80 km in single line section. It will be headed by a sectional SSE/JE(P.Way) (MMG) and shall be based on Rail Borne Maintenance Vehicle (RBMV) for mobility.

(b) The functions of MMG shall be as under:
- (i) Repair to rail/weld fracture including in-situ AT welding.
- (ii) Attention to SEJs.
- (iii) Scattered replacement of switches and crossing components, glued joints, SEJs, etc.
- (iv) Rail cutting/drilling and chamfering.
- (v) Spot renewals of rails and sleepers.
- (vi) Spot attention by Tamping of few sleepers with off-track tampers.
- (vii) Loading and unloading of material required for spot attention.
- (viii) Driving of RBMV.
- (ix) Any other functions assigned.

(c) The MMG shall be equipped with the following equipments. These equipments shall be used according to the working instructions and manufacturer operating instructions.

List of Equipments

(A) Communication Equipment

1.	Walkie Talkie	4 sets
2.	Portable field telephones	4 sets
3.	CUG mobile set	1 no

(B) Rail Cutting/Drilling Equipment

4.	Abrasive Disc Cutter	2 nos.
5.	Rail Drilling Machine	1 no.
6.	Chamfering kit	1 no.

(C) Rail Welding Equipment

7.	Rail Welding Equipment	2 sets
8.	Generator	2 no.
9.	Weld Trimmer	1 no.
10.	Rail Profile Grinder for welded joints	1 no.

(D) Spot Tamping with Lifting Lining

11.	Off Track Hand Held Tamper	4 no.
12.	Tamping Tools	4 no.
13.	Lifting Jack-hydraulic/mechanical	4 sets
14.	Lifting-cum-Slewing Device	2 sets

(E) Material Handling Equipment

15.	Rail Dolly	4 no.
16.	Mono Rail Wheel Barrow	2 no.

(F) Emergency Equipments

17.	Joggled Fishplates	10 no.
18.	C Clamps	20 no.
19.	Fish plates 600 mm: 60 kg/52kg each	10 no.
20.	Fish plates 1 m : 60Kg/52kg each	10no.
21.	Fish bolts	50 no.
22.	SEJ nuts and bolts	20 no.
23.	Plate screws	50 no.
24.	Fire Extinguisher	01 set
25.	Wooden Blocks	10 no.
26.	Box Spanner	4 no.
27.	Fish Plate Spanner (small)	4 no.

(G) Gas Cutting Equipments with Accessories 1 set

(H) Tools:

28.	Crow Bars(low carbon with alloy steel)	20 no.
29.	Sledge Hammer	6 no.
30.	Small Hammer	2 no.
31.	Spanner(low carbon steel, chromium and vanadium alloy) (in set)	2 no.
32.	Rail Tongue	6 no.
33.	Sleeper Tongue.	6 no.
34.	Pick axe	2 no.
35.	Phawara	4 no.
36.	Mortar pan (Steel light weight)	10 no.
37.	Chisel	6 no.
38.	Sickle	3 no.
39.	Wire Claw	10 no.
40.	Tool Box	1 no.
41.	Shovel	2 no.
42.	Axe	2 no.
43.	Motorized Wood Cutting Saw	2 no.
44.	Hand Wood cutting saw	2 no.

(I) Manual & Codes

45.	Working Time Table	1 no.
46.	G &SR Book	1 no.
47.	Accident Manual	1 no.
48.	IRPWM	1 no.
49.	Track Machine Manual	1 no.
50.	USFD Manual	1 no.
51.	LWR Manual	1 no.
52.	P N Book	1 no.
53.	AT Welding Manual	1 no.
54.	Small Track Machines Manual	1 no.

(J) Safety & Protection Equipment:

55.	Detonators	20 no.
56.	Banner Flag	4 no.
57.	Red Flag	4 no.
58.	Green Flag	2 no.
59.	Tricolour Torch	4 no.
60.	First Aid Medical Box	1 no.

(K) Measuring Equipment

61.	P.Way Kit	1 set
62.	Gauge-Cum-Level	2 no.
63.	Straight Edge 1 m	1 no.
64.	Measurement Tape 15m	1 no.
65.	Rail Thermometer	1 no.
66.	Vernier Calipers	1 no.
67.	Micrometer	1 no.

(L) Miscellaneous

68.	Welding material portion	20 no.
69.	Rail Closures of various lengths	10 no.
70.	Safety Belt	6 no.
71.	Aluminium Ladder	1 no.
72.	Safety Goggles	6 no.
73.	Halogen set	1 no.
74.	Safety helmet with Miner's light	10 no.
75.	Water Dispenser with cans	2 no.
76.	Tarpaulin	3 no.
77.	Rail Cutting Disc	10 no.
78.	Grinding Wheel	10 no.
79.	Mould Shoes (Pairs)	2 no.
80.	Safety Apron for welding	10 no.
81.	Chain Link	1 no.
82.	Hand Gloves	10 pairs
83.	Wire Rope 15 m	1 no.
84.	2T oil	500 m
85.	Transmission oil	5 ltr.
86.	Nylon Rope-15 m	1 no.

(III) Sectional Gangs: The bottom tier under the sectional SSE/JE(P.Way) with a jurisdiction of 30-40 Km in single line section comprises of P Way Supervisers(PWS)/Assistant P. Way Supervisors (APWS) or Mate, Keymen and Sectional Gang supplemented by contractual manpower through zonal and special P. Way contracts. The Sectional Gang includes a mobile Track Maintenance and Monitoring Gang which is based on a multi utitlity road vehicle with the same jurisdiction as that of sectional JE/P. Way, manpower for patrolling of track, stationary watchmen and boulder gangs. In addition, Gatemen for manning level crossing gates in the section including rest giver Gatemen are also under the charge of the sectional SSE/JE(P.Way). The sectional SSE/JE(P.Way) is provided with a multi-utility road van for the Track Maintenance and Monitoring Gang which transports the track maintainers, equipment and materials. The TMMG is generally responsible for:

(i) Looking after overall safety of track in their beat.

(ii) Carrying out works of casual renewal.

(iii) Spot maintenance.

(iv) Attention to fittings.

(v) Assisting the Mechanized Maintenance Gang (MMG).

(vi) Assisting the working of On-track machines.

(vii) Protection of work sites.

(viii) Other miscellaneous repair/maintenance activities etc.

The track shall be inspected daily by Keymen with a jurisdiction of about 6-7 km each. Each sectional SSE/JE(P.Way) is assisted by P. Way Supervisers or Assistant P. Way Supervisers (or Mates) whose beat shall be about 15-20 km covering the beat of 2-3 Keymen. Each PWS/APWS (or Mate) shall inspect his beat once in a week and supervise the works requiring presence of PWS/APWS (or Mate) including the working of contractors.

2. Each SSE(P. Way) (in overall charge) shall be provided with a zonal P. Way contract and activity specific special P. Way contracts for the maintenance works not covered by para 1(III) above. The zonal contract will supplement the departmental manpower and will cover the entire jurisdiction of the SSE(P.Way) (in overall charge). The special P. Way contracts shall be awarded for specific maintenance works with predetermined quantities and locations

3 In the sections brought under Modified Three-tier system of track maintenance, the extant provisions of IRPWM in respect of Inspection of sectional SSE/JE(P.Way) (not in overall charge) shall stand modified as under:

(i) Para 139 (1): Not applicable.

(ii) Para 139 (6): Sectional SSE/Junior Engineer (P.Way) should inspect the entire section by foot at least once in two months in a systematic manner (every month on pro rata basis so as to cover entire length of running track).

(iii)	Para 139 (10):	Sectional SSE/Junior Engineer (P.Way) should inspect the ongoing works of construction and other organization e.g. RVNL etc. going on in his section as much as possible during footplate/foot inspection to check the quality and safety of running trains.
(iv)	Para 141:	Sectional SSE/ Junior Engineer (P.Way) should cover his section once in fortnight by train and check the night patrolling. He will also check the night patrolling in night as per the schedules laid down. During inspections, he will check the patrol books, the knowledge of rules of patrolmen, their equipment etc.
(v)	Para 914(c) (ii):	The Permanent Way Inspector shall ensure that the Gatemen have a correct knowledge of rules by examining them periodically during his routine inspection and on appointment, promotion or transfer. He should not only educate them in rules, but also conduct practical demonstration of protection of level crossing in case of emergency.
(vi)	Para 1012 (1):	Inspection of Patrol Books- The Permanent Way Inspector must examine the patrol books, initial the entries each time he inspects and take up irregularities. The Assistant Engineer should examine the patrol books during his inspection.

*****