

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

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No. 2015/CE-II/CS/2

New Delhi, dated 15.11.2018

**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 2<sup>nd</sup> 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, IRISSET, Secunderabad.

Director, IRIMEE, Jamalpur.

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

Director General, Railway Staff College, Vadodara.

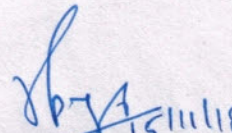
Genl. Secretaries, AIRF, NFIR, IRPOF, FROA, AIRPFA, DAI (Railways) Rail Bhawan, New Delhi.

**Sub: Correction Slip No.146 to the Indian Railways Permanent Way Manual.**

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Ministry of Railways (Railway Board) has decided that correction/addition as indicated in the enclosed Correction Slip No.146 dated 15.11.2018, to relevant para of the IRPWM, be made.

Receipt of this letter may please be acknowledged.

  
(Pradeep Nagar)  
Director Civil Engg.(P)  
Railway Board

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.

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**INDIAN RAILWAYS PERMANENT WAY MANUAL**

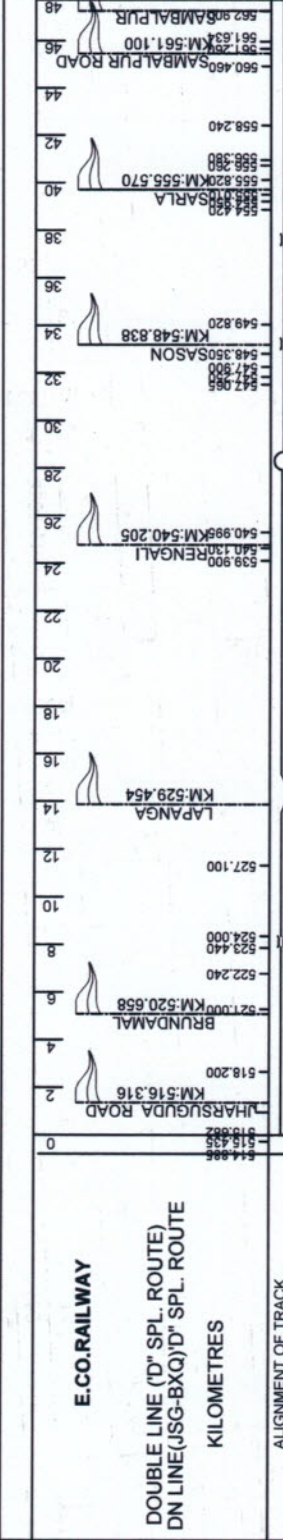
**CORRECTION SLIP NO.146 DATED 15.11.2018**

The existing "Annexure 2/4 of Para 211" of IRPWM shall be replaced with the following:

**Modified Annexure 2/4 Para 211.**

<b>LEGEND :-</b>	
<b>1. RAILS :-</b>	
<b>RAIL SECTION / UTS</b>	<b>COLOUR</b>
<b>BOARD GAUGE :-</b>	<b>INDIGENOUS</b>
60 Kg / 90	YELLOW
60 Kg / 72	YELLOW
52 Kg / 90	GREEN
52 Kg / 72	GREEN
90 R / 90	RED
90 R / 72	RED
OTHER	TO BE DECIDED BY RAILWAY
<b>2. TRACK TYPE :-</b>	
S.W.P.	GREEN
L.W.R./C.W.R.	RED
FISH PLATED	BLACK
<b>3. SLEEPER :-</b>	
P.S.C. - 60 kg	GREEN
P.S.C. - 52 kg	GREEN
25k PSC/DFC	GREEN
WIDE BASE P.S.C.	GREEN
S.T./STEEL CHANNEL	YELLOW
C.S.T. / 9	RED
WOODEN	BLACK
<b>4. FORMATION DETAILS :-</b>	
(i) TYPE OF FORMATION :-	EMBANKMENT / CUTTING / TUNNEL
(ii) FORMATION TROUBLE :-	
<b>5. TRACK RENEWALS</b>	
(i) PROPOSED	RED
(ii) SANCTIONED	YELLOW
(iii) PROGRESS	GREEN
<b>6. PERMANENT SPEED RESTRICTIONS.....</b>	75

<b>E.CO.RAILWAY</b>	
DOUBLE LINE (D" SPL.ROUTE) DN LINE(JSG-BXQ)D" SPL.ROUTE	
KILOMETRES	
<b>ALIGNMENT OF TRACK</b>	
<b>GRADIENT</b>	LEVEL 150F
<b>SECTION</b>	LEVEL 100R
<b>MANUFACTURER</b>	SAIL
<b>GRADE OF STEEL</b>	SAIL
<b>YEAR OF ROLLING</b>	1999
<b>YEAR OF LAYING</b>	1999
<b>CUMULATIVE GMT</b>	540
<b>TYPE</b>	1660
<b>YEAR OF MANUFACTURING</b>	1998
<b>YEAR OF LAYING</b>	1998-99
<b>SLEEPER DENSITY (No. Per Km)</b>	1660
<b>CUMULATIVE GMT</b>	540
<b>CLEAN (mm)</b>	250
<b>CAKED (mm)</b>	50
<b>YEAR OF LAST DEEP SCREENING BALLAST CLEANING</b>	12-13
<b>TYPE OF FORMATION</b>	EMBANKMENT
<b>BLANKET THICKNESS</b>	60 MM
<b>GEO-GRID/TEXTILE BELOW BALLAST</b>	
<b>FORMATION TROUBLE</b>	
<b>THROUGH RAIL RENEWAL (TRR)</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>THROUGH SLEEPER RENEWAL (TSR)</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>THROUGH FITTINGS RENEWAL (TFR)</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>THROUGH BALLAST RENEWAL (TBR)</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>FORMATION REHABILITATION</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>THROUGH WELD RENEWAL</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>INCREASE OF SLEEPER DENSITY</b>	PROPOSED/ SANCTIONED / PROGRESS
<b>TRAFFIC DENSITY (GMT Per Year)</b>	23.02
<b>SECTIONAL SPEED (kmph)</b>	50KMPH
<b>PERMANENT SPEED RESTRICTION (kmph)</b>	110 KMPH
<b>JURISDICTION OF SECTION ENGINEER/ P.WAY</b>	



**EAST COAST RAILWAY**  
CE's OFFICE / DRG.NO.  
SHEET NO.01

**TRACK DIAGRAM**  
BROAD GAUGE  
CORRECTION UP TO 31.03.2018  
JHARSUGUDA - TITLAGARH SECTION

SCALE:- 1 cm = 2.5 km

NOTE:- SANCTIONED WORK SHALL BE CONTINUED TO BE SHOWN AS "IN PROGRESS" TILL THE ENTIRE WORK IS COMPLETED AND DELETED FROM IRP/S.M.