GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)

No. 2021/Track-III/TK/12 **New Delhi, Dtd. 17.05.2023**

Addressed to:
As per list attached.

Sub: Correction Slip No. 2 to Indian Railway Track Machine Manual (IRTMM-2019).

The Ministry of Railways (Railway Board) have decided to make correction/addition as indicated in the enclosed Correction Slip No. 2 to relevant para of Indian Railway Track Machine Manual-2019.

This has the approval of Board (AMCE).

Vijay 17/5/2023

(Vijay Singh)
Director Track (MC)
Railway Board

Copy to:

1. The Principal Director of Audit, All Indian Railways.
2. The Deputy Controller & Auditor General of Indian Railways, Room No. 224, Rail Bhawan, New Delhi.

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INDIAN RAILWAY TRACK MACHINE MANUAL, SEPTEMBER-2019

Correction Slip No.2

Annexure-7.7 (Page No. 225-232) of INDIAN RAILWAY TRACK MACHINE MANUAL, SEPTEMBER-2019 shall be replaced as following:

Annexure 7.7

Infringement to Indian Railways Schedule of Dimension by Various Track Machines

(A) Infringement to Schedule of Dimensions – 1939

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
1.	Continuous Tamping Machine (09 - 32 CSM)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	730	914	60	40
				(ii) Min. rigid wheel base.	1800	1830		
2.	Points & Crossing Tamping Machine (UNIMAT 08-275-3S)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	730	914	60	40
				(ii) Min. rigid wheel base.	1800	1830		
				(iii) Max. distance between any two adjacent axles.	12200	11890		
3.	Dynamic Track Stabilizer (DGS-62N)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face	730	914	60	50
				(ii) Min. rigid wheel base for bogie.	1500	1830		
4.	Ballast Cleaning Machine (RM-80)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	900	914	40	30
				(ii) Max. distance apart of bogie centres.	22200	14785		
				(iii) Max. length of bogie or roof.	29360	21340		
				(iv) Max. length of under frames over headstocks.	29360	21030		
				(v) Max. length over side buffers.	30600	22300		
				(vi) Max. distance apart between adjacent axles.	20370	11890		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
5.	Ballast Regulator (66-4)	M/s –Kershaw USA		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face. 4-wheeler vehicles	838.2	914	50	40
				(ii) Max. length of body or roof for 4-wheeler vehicles.	9120	8540		
				(iii) Max. length over side buffers	10389	9810		
6.	Track Relaying Train (P-811-S)	MIs Tamper Corpora-tion, USA		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	838.2	914	5	50
				(ii) Min. rigid wheel base for bogie truck.	1727.2	1830		
				(iii) Max. distance apart between any two adjacent axles	12072.94	11890		
7.	Points & Crossing Cleaning Machine (RM-76 UHR)	M/s Plasser		(i) Min. dia. of new wheel tread measured at 63.5 mm from wheel gauge face.	900	914	40	30
				(ii) Max. distance apart of bogie centre.	19500	14785		
				(iii) Max. length of body or roof for bogie vehicles.	23490	21340		
				(iv) Max. length of under frames over headstocks.	23490	21030		
				(v) Max. length over side buffers	24730	22300		
				(vi) Max. distance apart between two adjacent axles	17670	11890		
8.	Points & Crossing Changing Machine (AMECA-T-28)	M/s –Ameca Italy		(i) Wheel Gauge: Maximum Minimum	 1604 1598	 1602 1599	10	-
				(ii) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face	400	914		
9.	Ballast Cleaning Machine (RM80-92-I)	M/s Plasser		(i) Min. dia on wheel tread.	900	914	50	40
				(ii) Max. distance apart of bogie centre	22200	14785		
				(iii) Max. length of body	28300	21340		
				(iv) Max. length over head stock	28300	21030		
				(v) Max. length over side buffers.	29540	22300		
				(vi) Max distance apart between any two adjacent axles.	20370	11890		
10.	Shoulder Ballast Cleaning Machine (FRM-80)	M/s Plasser		(i) Min. dia on wheel tread.	900	914	40	30
				(ii) Max. distance apart of bogie centres	16000	14785		
				(iii) Max. length of body	38200	21340		
				(iv) Max. length over head stocks	38200	21030		
				(v) Max. length over side buffers.	39470	22300		
				(vi) Max distance apart between any two adjacent axles.	14170	11890		
11.	UTV 502 L	M/s –Tamper Corporation, USA		(i) Min. dia on new wheel tread.	838.2	914	60	40
				(ii) Max. rigid wheel base.	8000	6100		
				(iii) Max. length of body for 4-wheel vehicle 3200 mm wide.	11303	8540		
				iv) Max. length over head stocks.	11303	8540		
				v) Max. length over side buffers.	12522	9810		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
12	P &C Tamping Machine 08-275 (UNIMAT).	M/s Plasser		i) Min. dia on wheel tread.	730	914	60	40
				ii) Min. distance apart of bogie centres.	11500	11933		
				iii) Min. bogie wheel base.	1500	1830		
13	Ballast Regulator 56-3	M/s – Kershaw USA		i) Min. dia on wheel tread.	832	914	60	40
				ii) Max. length of body.	11074	8540		
				iii) Max. length over headstocks.	11074	8540		
				iv) Max. length over side buffers.	12344	9810		
14	Multipurpose Tamping Machine.	M/s Plasser		i) Min. dia on wheel tread measured at 63.5mm from gauge face.	730	914	60	40
				ii) Min. rigid wheel base for bogie truck of any vehicle.	1800	1830		
15	High Output Tamping Machine (09-3X) 20.0t axle load.	M/s Plasser	CHTM09-3XP1	i) Min. dia on the tread of new carriage wheel, measured at 63.5mm from the wheel gauge face.	730	914	60	60
				ii) Max. distance apart of bogie centres for bogie vehicles 3250 mm wide.	15700	14785		
				iii) Min. rigid wheel base for bogie truck of any vehicle.	1500-Satellite bogie. 1800-Front and Rear			
16.	Utility Track Vehicle	M/s-BHEL	CUTV/BHEL/J	i) Distance apart for centres of buffers.	1956	1955	50	50
				ii) Max Length of body or roof for 4-wheeler vehicle 3200 mm wide.	10516	8540		
17.	Shoulder Ballast Cleaning Machine (FRM-85F).	M/s Plasser	CSBC85FP	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	900	914	40	30
				ii) Max. distance apart of bogie centres.	16000	14785		
				iii) Max. Length of body or roof.	38200	21340		
				iv) Max. Length of under frames over head stocks.	38200	21030		
				v) Max. Length over side buffers.	39440	22300		
				vi) Max. distance apart between any two adjacent axles.	14170	11890		
18.	Worksite Tamper Model-VPR-02M	M/s -Metex	TM/VPR-02M	i) Min. dia of wheel tread measured at 63.5mm from gauge face.	710.325	914	50	45
				ii) Minimum projection for flange of new tyre, measured from tread at 63.5mm from wheel gauge face.	27.675	28.50		
				iii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	32.31	28.5		
				iv) Max. Length over side buffers for bogie vehicle 3250mm wide.	23550	22300		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
19.	Utility Track Vehicle	M/s- OEPL	CUTV/OPEL/H	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	60	50
				ii) Max. rigid wheel base.	6500	6100		
				iii) Max Length of body or roof for 4 wheeled vehicle 3200 mm wide.	9000	8540		
				iv) Max. Length of under frames over head stocks.	9000	8540		
				v) Max. Length over side buffers.	10270	9810		

(B) Infringement to Schedule of Dimensions1676 mm Gauge (BG) Revised, 2004

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
1.	High Output Tamping Machine (09-3X) 18.5t axle load.	M/s Plasser	CHTM09-3XP2	i) Min. dia on the tread of new carriage or wagon wheel, measured at 63.5mm from the wheel gauge face.	730-for Satellite bogie. 850- for Front and Rear bogies.	914	50	65
				ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	28.68	28.50		
				iii) Maximum height above rail level for floor of anyunloaded vehicle.	1370	1345		
				iv) Max. distance apart of bogie centres for bogievehicles.	15700	15241		
				v) Min. rigid wheel base for bogie truck of any vehicle	1500-for Satellite bogie. 1800-for Front and Rear bogies.	1830		
				vi) Max. Length of body or roof for bogie vehicles.	21700	21340		
				vii) Max. Length over side buffers for bogie vehicles.	22940	22300		
2.	High Output Tamping Machine (09-3X) 21.0t axle load.	M/s Plasser	CHTM09-3XP	i) Min. dia on the tread of new carriage or wagon wheel, measured at 63.5mm from the wheel gauge face.	730-for Satellite	914	50	65
				ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.46	29.4		
				iii) Max. height above rail level for floor of any unloaded vehicle.	1370	1345		
				iv) Distance apart for centres of buffers	1955	1956		
				v) Max. distance apart of bogie centres for bogie vehicles	15700	14900		
				vi) Min. rigid wheel base for bogie truck of any vehicle.	1500-for Satellite bogie. 1800-for Front and Rear bogies.	1830		
				vii) Max. Length of body or roof for bogie vehicles.	21700	21340		
				viii) Max. Length over side buffers for bogie vehicles.	22940	22300		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
3.	Utility Track Vehicle with Mobile Crane.	M/s Phooltas	CUTVMC/P	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	50	60
				ii) Distance apart for centres of buffers.	1956	1955		
				iii) Max. rigid wheel base	8000	6100		
				iv) Max. Length of body or roof for 4 wheeled vehicle.	11900	8540		
				v) Max. Length over side buffers for 4 wheeled vehicle	13170	9810		
4.	Utility Track Vehicle.	M/s BEML	CUTVB	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	50	50
				ii) Distance apart for centres of buffers.	1956	1955		
				iii) Max. rigid wheel base for four wheeled vehicles.	7000	6100		
				iv) Max Length of body or roof for 4 wheeled vehicle.	10850	8540		
				v) Max. Length over side buffers for 4 wheeled vehicle.	12120	9810		
5.	Dynamic track Stabilizer	M/s BHEL	CTSBH	i) Maximum height above rail level for floor of any unloaded vehicle.	1450	1345	50	50
6.	Ballast Regulating Machine Model-USP 2000 SWS	M/s Plasser	BRM/USP-2000SWS	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	850	914	50	60
				ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	28.64	28.5		
				iii) Maximum height above rail level for floor of any unloaded vehicle.	2100	1345		
				iv) Distance apart for centres of buffers	1955	1956		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
7.	Point & Crossing Tamping Machine (UNIMAT 08-475-4S)	M/s Plasser	PCTM/08-475-4S	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.46	28.50	50	65
				ii) Maximum height above rail level for floor of any unloaded vehicle.	1370	1345		
				iii) Distance apart for centres of buffers.	1955	1956		
				iv) Min. rigid wheel base for bogie truck of any vehicle.	1800	1830		
				v) Max. Length over side buffers for bogie vehicle.	28370	22300		
8.	Lifting, Lining, Leveling and Tamping Machine Model-08-32C DUOMATIC	M/s Plasser	CLTM08-32CP1	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	850	914	50	50
				ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	28.64	28.50		
				iii) Distance apart for centres of buffers.	1955	1956		
				iv) Min. rigid wheel base for bogie truck of any vehicle.	1800	1830		
9.	Dynamic Track Stabilizer (Model DSP-C8T)	M/s Metex	DTSC8TMX	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	860	914	50	50
				ii) Maximum height above rail level for floor of any unloaded vehicle.	1635	1345		
10.	Ballast Regulating Machine Model-PBR 400R	M/s Plasser	CBRM400RP	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	730	914	50	50
				ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	28.64	28.50		
				iii) Distance apart for centres of buffers.	1955	1956		
				iv) Max Length of body or roof for 4 wheeled vehicle.	9750	8540		
				v) Max. Length over side buffers for 4 wheeled vehicle.	11020	9810		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
11.	Rail Grinding Machine (RGI-72)	M/s Loram	CRG 72L	i) Maximum height above rail level for floor of any unloaded vehicle.	1683	1345	50	65
12.	Ballast Regulating MachineModel-RPB-01	M/s Metex	CBRM/RPB-01MX	i) Maximum height above rail level for floor of any unloaded vehicle.	1700	1345	50	50
				ii) Distance apart for centres of buffers.	1955	1956		
13.	Ballast Cleaning Machine	M/s BHEL	.....	i) Maximum height above rail level for floor of any unloaded vehicle.	1600	1345	50	50
				ii) Max. distance apart of bogie centres for bogie vehicles.	18000	15241		
				iii) Max. Length of body or roof for bogie vehicles	23840	21340		
				iv) Max. Length over side buffers for bogie vehicles.	25110	22300		
				v) Max. distance apart between any two adjacent axles	15900	12345		
14.	Worksite Tamper without flat car Model-VPR-02M	M/s Metex	CWST/VPR-02M/MX	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	732	914	50	50
15.	Ballast Regulating Machine Model SPZ 210k	M/s Gemac China	CBRMG	i) Max. rigid wheel base for four wheeled vehicles.	7500	6100	50	60
				ii) Max. length of body or roof for 4 wheeled vehicles.	13590	8540		
				iii) Max. Length over side buffers for 4 wheeled vehicle.	14780	9810		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
16.	Multipurpose Tamping Machine Model-Unimat Split Head MFI	M/s Plasser	CMTUSHP	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	730	914	45	45
				ii) Distance apart from centres of buffers.	1955	1956		
				iii) Max. Length over side buffers for bogie vehicles.	28570	22300		
17.	Rail Borne Maintenance Vehicle (RBMV) Model- RBMV.01	M/s Phooltas	RBMVP	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face	952	914	105	105
				ii) Distance apart from centres of buffers.	1956	1956		
				iii) Max. Length of body or roof for bogie vehicles	21337	21340		
18.	Utility Track Vehicle.	M/s SAN, Engg.	CUTV/SANEL/B	i) Max.. rigied wheel base for four wheeled vehicle	7000	6100	50	50
				ii) Max. Length of body or roof for four vehicle	11600	8540		
				iii) Max. length over side buffers for four vehicles	12670	9810		
19	Utility Track Vehicle.	M/s Trident	CUTV/TA	i) Maximum rigid wheel base for four wheeled vehicle	8000	6100	50	60
				ii) Maximum length of body or roof for 4-wheeled vehicle	12357	8540		
				iii) Max. Length over side buffers for for 4-wheeled vehicles.	13150	9810		
20	Tamping & stabilizer machine 09-3X Dynamic	M/s Plasser	CHOTSM/09-3XD/P5	i) Min.dia of wheel tread measured at 63.5mm from gauge face	730	914	75	70
				ii) Max. height above rail level for floor of any unloaded vehicle	1380	1345		
				iii) Max. distance apart of bogie centres for bogie vehicle	15800	14900		
				iv) Min. rigid wheel base for bogie truck of any vehicle	Main bogie 1800 Satellite bogie 1500	1830		
				v) Max. length of body or roof for bogie vehicles	32800	21340		
				vi) Max. length over side buffers for bogie vehicles	34040	22300		
				vii) Max. distance apart between any two adjacent axles	14000	12345		
21.	Muck Disposal Unit, MFS120	M/s Plasser	C/MDU-120/P	i) Min. rigid wheel base for bogie truck of any vehicle	1800	1830	Nil	55

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
22	High out-put Ballast cleaning machine RM-900	Plasser	CHBCM/RM-900P	**Screen unit** i) Max. height above rail level for floor of any unloaded vehicle	1960	1345	50	65
				Excavating Unit i) Max. height above rail level for floor of any unloaded vehicle	2000	1345		
				ii) Max. distance apart of bogies centre for bogie vehicle	23800	14900		
				iii) Max. Length of body or roof for bogie vehicles	27694	21340		
				iv) Max. distance apart between any two adjacent axles.	21970	12345		
				Power Wagon (ATW1) i) Max. height above rail level for floor of any unloaded vehicle	1570	1345		
				ii) Max. distance apart of bogies centre for bogie vehicle	16000	14900		
				iii) Max. Length of body or roof for bogie vehicles	21625	21340		
				iv) Max. distance apart between any two adjacent axles.	14170	12345		
23	Multipurpose Tamper-275MFI	Plasser	MTM275P	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	850	914	50	65
				ii) Max. Length over side buffers for bogie vehicles.	28570	22300		
24	Point and Crossing Tamping Machine CDC-16W&XCD-16W	CRCC, China	CTCDC16W & CTXCD 16W	i) Min. rigid wheel base for bogie truck of any vehicle	1800	1830	65	65
				ii) Max. length over side buffers for bogie vehicles	30094	22300		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
25	Shoulder Ballast Cleaning machine BS-550	CRCC, China	SBCM BS550C	i) Max. distance apart of bogies centre vehicle.	20000	5100	65	65
				ii) Min. rigid wheel base for bogie truck of any vehicle	1800	1830		
				iii) Max. Length of body or roof for bogie vehicles	35270	21340		
				iv) Max. length over centre buffers couplers or side buffers for bogie vehicles	36564	22300		
				v) Max. distance apart between any two adjacent axles.	18200	12345		
26	Multipurpose Tamper DDC-16W	CRCC	MTDDC16W	i) Min. rigid wheel base for bogie truck of any vehicle	1800	1830	65	65
				ii) Max. length over centre buffers couplers or side buffers for bogie vehicles	28154	22300		
27	Point and Crossing Tamping Machine CDC-16 lll	Gemac	----------	No Infringement	---	---	50	65
28.	Ballast Cleaning Machine (RM80-92-U)	M/s Plasser	i) CBCM/RM80 -92-U/P3	ii) Minimum diameter on the tread of new carriage or wagon wheel measured at 63.5mm from wheel gauge face	900	914	60	60
				iii) Max. distance apart of bogie centres for bogie vehicle	22200	14900		
				iv) Max. length of body or roof for bogie vehicles	28300	21340		
				v) Max. length over side buffers for bogie vehicles	29540	22300		
				vi) Max distance apart between any two adjacent axles.	20370	12345		

Note: Speed of various track machines indicated in annexure 7.7 is for general information. Speed of track machines in field will be based on speed prescribed in the sanction for introduction by Railway Board.