

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS (RAILWAY BOARD)

COMPENDIUM

OF

CORRECTION SLIPS

TO CODES & MANUALS

PERTAINING TO ENGG. DEPTT.

(Incorporating all advance correction slips issued between 1st Jun 2013 to 31st Dec 2013)



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FOREWORD

The correction Slips (CSs) to various Codes and Manuals pertaining to the Engineering

Department are being issued by various nodal authorities, which have been nominated by the

Railway Board. There had been reports that the same were not reaching the concerned officials

down line.

It was, therefore, decided by the Railway Board (M.E) vide letter No. 2004/ CE-II/CS/1

dated 05-02-04 that in addition to the issue of CSs by nodal authorities as per extant practice,

the same shall also be compiled and published in the form of a booklet twice a year, generally

i.e. on 30th June and 31st December by IRICEN and recirculated to the Railways, containing the

CSs issued during the preceding six months. In order to provide continuity, an abstract of

previous volumes of Compendium of Correction slips has been included giving the details of

Correction Slips to each of Codes & Manuals, contained in the respective volumes

This is the Ninenth volume containing CSs issued during the period between 1st Jun 2013

to 31st Dec 2013. The pages have been printed on one side only, so as to facilitate

tearing/pasting/updating the codes and manuals by the concerned officials. The contents are

also available on the IRICEN website www.iricen.gov.in in members area.

Director IRICEN

Pune

31st Dec 2013

CONTENTS

S. No.	Codes / Manuals	Pages
1	INDIAN RAILWAYS PERMANENT WAY MANUAL (Second Reprint -2004)	1-17
2	INDIAN RAILWAYS BRIDGE MANUAL – 1998	18-19
3	RAILWAYS INDIAN TRACK MACHINE MANUAL – 2000	20-33
4	INDIAN RAILWAYS SCHEDULE OF DIMENSIONS 1976 mm GAUGE (BG) REVISED - 2004	34-48

No Correction Slips received to the following Codes & Manuals between 1st Jun 2013 to 31st Dec2013

1	INDIAN RAILWAYS WORKS MANUAL – 2000	
2	MANUAL OF INSTRUCTION ON LONG WELDED RAILS 1996	
	(Second Reprint – 2005)	
3	MANUAL FOR FLASH BUTT WELDING OF RAILS	
	(Reprint 2012)	
4	MANUAL FOR FUSION WELDING OF RAILS BY ALUMINO-	
	THERMIC PROCESS-1988(New Manual Rev.2012)	
5	MANUAL FOR ULTRASONIC TESTING OF RAIL AND WELDS –	
	2012 (New Manual Revised 2012)	
6	MANUAL FOR GLUED INSULATED RAIL JOINTS-1998	
7	MANUAL OF INSPECTION SCHEDULE FOR OFFICIALS OF	
	ENGINEERING DEPARTMENT - 2000	
8	RAILWAYS (OPENING FOR PUBLIC CARRIAGE OF	
	PASSENGERS) RULES, 2000	
9	INDIAN RAILWAYS CODE FOR ENGG DEPT(Third reprint1999)	
10	GUIDELINES FOR EARTHWORK IN RAILWAY PROJECTS -	
	2003	

DISCLAIMER:- This compendium is compilation of different correction slips for reference purpose only. For any doubt or confirmation, original correction slips issued by RDSO /Railway Board may be refered.

Abstract if previous and current volumes of Compendium of Correction Slips to Codes & Manuals Pertaining to Engg. Deptt.

			Serial Number of Correction Slips/Addendum & Corrigendum / Errata											
SN	Code/Manual	& Corrigend Last Correction Slips	um / E Vol. 3 No. 1 Dec. 06	rrata Vol. 3 No. 2 Dec 06	Vol. 4 No. 1 June 07	Vol. 4 No. 2 Dec. 07	Vol. 5 No. 1 June. 08	Vol 5 No. 2 Dec 08	Vol. 6 No. 1 June 09	Vol. 7 No. 1 June 10	Vol. 8 No. 1 June 12	Vol. 8 No. 2 Dec 12	Vol. 9 No. 1 June 13	Vol. 9 No. 2 Dec 13
1	INDIAN RAILWAYS PERMANENT WAY MANUAL (Second Reprint – 2004)	120 dt 16/4/10	Nil	100	101 to 103	104 to 108	109 to 113	114 to 115	116 & 117	118 - 120	121-129	130	131-133	134
2	INDIAN RAILWAYS BRIDGE MANUAL – 1998	20 dt. 07/06/10	Nil	Nil	Nil	12	13 & 14	15 to 18	Nil	19 – 20	21-24	25	NIL	26
3	INDIAN RAILWAYS WORKS MANUAL – 2000	10 dt. 17/2/05	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NIL	NIL	NIL	NIL
4	MANUAL OF INSTRUCTIONS ONLONG WELDED RAILS – 2006 (Second Reprint – 2005)	13 dt. 9/3/1-	9	10 & 11	Nil	Nil	Nil	Nil	12	13	14-15	NIL	NIL	NIL
5	MANUAL FOR FLASH BUTT WELDING OF RAILS (Reprint 2012)	New Manual Reprint 2012										1	NIL	NIL
6	MANUAL FOR FUSION WELDING OF RAILS BY THE ALUMINO-THERMIC PROCESS (Revised 2012)	New Manual Revised 2012										Nil	NIL	NIL
7	MANUAL FOR ULTRASONIC TESTING OF RAILS AND WELDS (Revised 2012 including C.S. from 1-9)	New Manual Revised 2012										Nil	NIL	NIL
8	MANUAL FOR GLUED INSULATED RAIL JOINTS – 1998	4 dt. 7/8/01	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	5	NIL

SN	Code/Manual	Serial Number of Correction Slips/Addendum & Corrigendum / Errata												
		Last Correction Slips	Vol. 3 No. 1 Dec. 06	Vol. 3 No. 2 Dec 06	Vol. 4 No. 1 June 07	Vol. 4 No. 2 Dec 07	Vol. 5 No. 1 June. 08	Vol 5 No. 2 Dec 08	Vol. 6 No. 1 June 09	Vol. 7 No. 1 June 10	Vol. 8 No. 1 June 12	Vol. 8 No. 2 Dec. 12	Vol. 9 No. 1 June13	Vol. 9 No. 1 Dec. 13
9	INDIAN RAILWAYS TRACK MACHINE MANUAL – 2000	10 dt. 12/12/06	Nil	9 & 10	Nil	Nil	Nil	Nil	Nil	Nil	14-15	13*	NIL	12&16*
10	MANUAL OF INSPECTIN SCHEDULES FOR OFFICIALS OF ENGINEERING DEPARTMENT – 2000	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NIL	NIL
11	RAILWAYS (OPENING FOR PUBLIC CARRIAGE OF PASSENGERS) RULES, 2000	Corrigandum dt. 16/2/05	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NIL	NIL
12	INDIAN RAILWAYS SCHEDULE OF DIMENSIONS 1676 mm GAUGE (BG) REVISED – 2004	5 dt 11/2/09	1 & 2	Nil	Nil	3	Nil	Nil	5*	Nil	6-7	8-11	12	13-14
13	INDIAN RAILWAYS CODE FOR THE ENGINEERING DEPARTMENT (Third Reprint – 199)	45 dt 10/7/08	Nil	40	41	42	Nil	43 to 45	Nil	Nil	Nil	46	NIL	NIL
14	GUIDELINES FOR EARTHWORK IN RAILWAY PROJECTS - 2003	1 dt. 22/7/04	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	NIL	NIL

^{* 4} not yet issued. *11 NOT YET ISSUED



सत्यमेव जयते

भारत सरकार रेल मंत्रालय (रेलवे बोर्ड)

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS (RAILWAY BOARD)

> भारतीय रेल रेल पथ नियमावली

INDIAN RAILWAYS PERMANENT WAY MANUAL

द्वितीय पुनर्मद्रण 2004

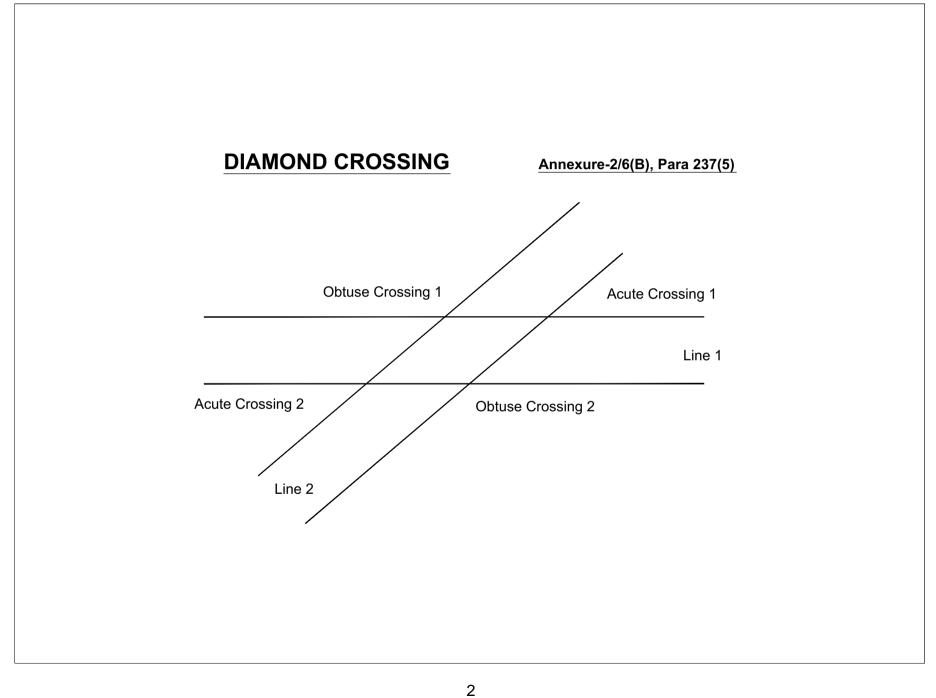
दिनांक 05-03-2005 के क्रमांक 93 तक के समस्त अग्रिम शद्धि पत्र समाहित

Second Reprint 2004

Embodying all advance correction slips upto Number 93 dated 05-03-2004

INDIAN RAILWAYS PERMANENT WAY MANUAL ADVANCE CORRECTION SLIP No.134 dated 18.07.2013

A new annexure-2/6(B),(C) and (D) and annexure-2/6/1 of Para 237(5) regarding proforma for Inspection of Diamond Crossing without Slip/With Single Slip/With Double Slip may be added to Indian Railways Permanent Way Manual.



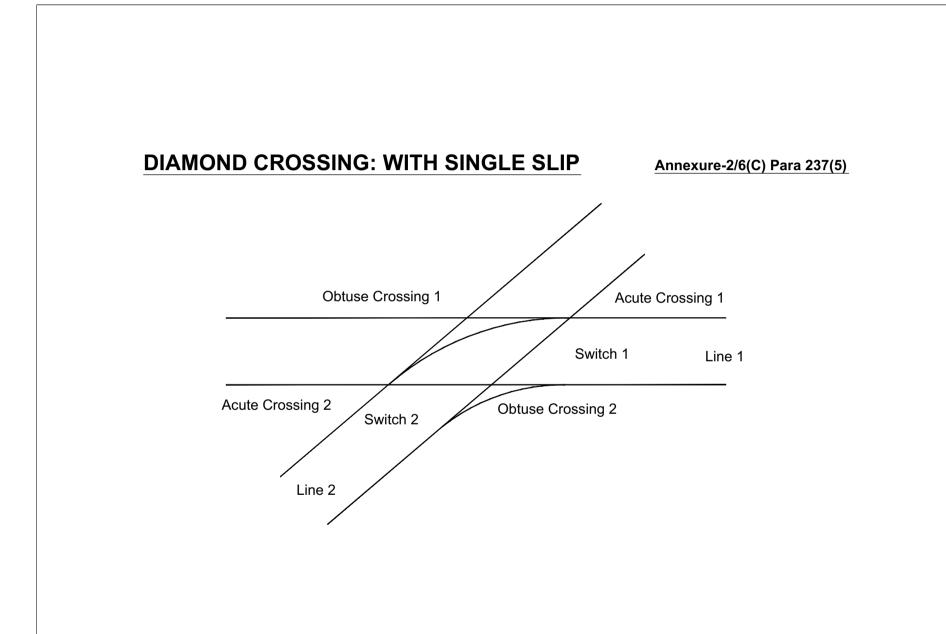
PROFORMA FOR INSPECTION OF POINTS AND CROSSINGS

Diamond Crossing

Station	1						 	
Point 1	No							
Locati	on							
Туре	of rail						 	
	f laying						 	
	f laying reconditioned crossings:							 _
	of sleeper/assembly							_
	of crossing							
	nal gauge of turnout							
1	Sleeper Details							
1.1	Condition of sleeper							
1.2	Squaring							
1.3	Spacing							
2	Ballast Details		T		T			
2.1	Condition of ballast							
2.2	Condition of drainage							
2.3	Ballast in shoulders and cribs							
2.4	Clean ballast cushion (mm)						1	 T
3	Gauge and X-level between crossing	S	Liı	ne 1	Li	ne 2		
		T	Gauge	X-Level	Gauge	X-Level		
		Station 0						
		1						
		2						
	At 3 m interval in lead portion	3						

		4								
		5								
4	Condition of Crossing		Acute	Xing 1	Acut	e Xing2	Obtuse	Xing 1	Obtus	e Xing 2
4.1	Sign of Propogation of crack (if any)									
4.2	Burring on top surface at nose									
5	Type of Crossing					T				_
6	Wear of Crossing			cute Xing		1	cute Xing 2			
			Left Wing Rail	On Nose	Right Wing Rail	Left Wing Rail	On Nose	Right Wing Rail		
				Obtus	e Xing 1			Obtuse	Xing 2	
			No	se 1		ose 2	Nos			ose 2
			On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail
7	Clearance of wing rail opposite nose		Acute	Xing 1	Acute	e Xing 2	Obtuse	Xing 1	Obtus	e Xing 2
	crossing and upto 450 mm towards h	neel end	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
8	Gauge and Cross Level		Acute	Xing 1	Acute	e Xing 2	Obtuse	Xing 1	Obtus	e Xing 2
			Line 1	Line 2	Line 1	Line 2	Line 1	Line 2	Line 1	Line 2
8.1	1 m ahead of ANC	Gauge								
0.1	1 III ancau of Aire	X-Level								
8.2	150 mm ahead ANC	Gauge								
5.2	100 mm unoud 1110	X-Level								
8.3	150 mm behind ANC	Gauge								
		X-Level								
8.4	1 m behind ANC	Gauge								

		X-Level								
9	Condition of check rail and its fitting	gs	Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	e Xing 2
9.1	Raised Check Rail									
9.2	Other bearing, plates, keys, blocks, bol elastic fastening	ts and								
10	Check Rail Clearance		Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	e Xing 2
10	Check Ran Clearance		Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
10.1	Opposite ANC									
10.2	500 mm ahead towards toe of crossing									
10.3	500 mm behind heel of crossing									
10.4	At the flared end towards heel									
10.5	At the flared end towards toe									
11	Remarks									



PROFORMA FOR INSPECTION OF POINTS AND CROSSINGS

Diamond Crossing: with single slip

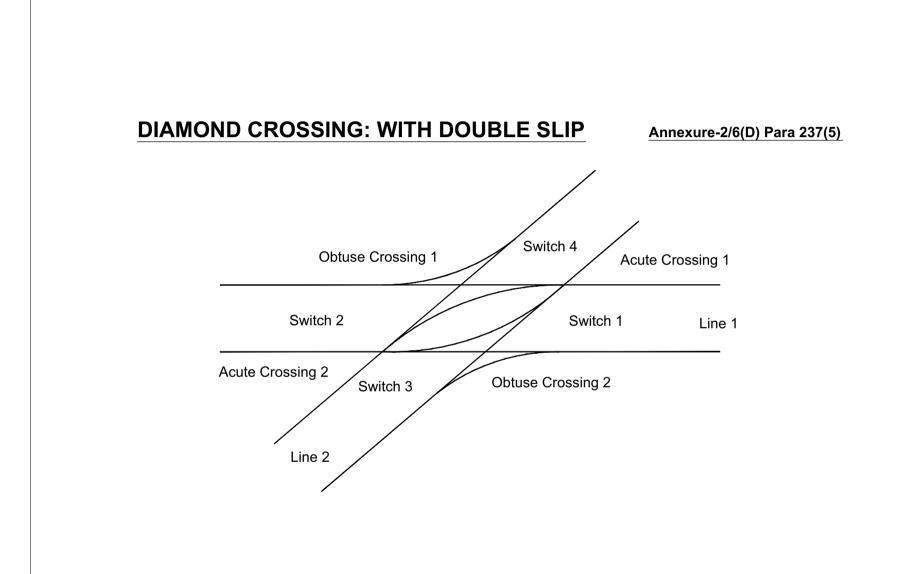
Statio	on		· · · · · · · · · · · · · · · · · · ·		 	
Point	No					
Loca	tion					
Type	of rail				 	
Date	of laying				 	
Date	of laying reconditioned crossings :					_
						_
						_
Angl	1.1 Condition of sleepers					
						_
1	Sleeper Details		,			
1.1	Condition of sleepers					
1.2	Squaring					
1.3	Spacing					
2	Ballast Details					
2.1	Condition of ballast					
2.2	Condition of drainage					
2.3	Ballast in shoulders and cribs					
2.4	Clean ballast cushion (mm)					
3	Condition of Switch Assembly		Switch 1	Switch 2		
3.1	Whether chipped or cracked over 200 mm	Inner				
J.1	length within 1000 mm from ATS	Outer				
3.2	Whether twisted or bent (causing gap of 5 mm	Inner				

	or more	at toe)	Outer						
3.3	Whathar	knife edge	Inner						
3.3	Whether	Killic edge	Outer						
3.4	Seating	of tongue rails on slide chairs	Inner						
J. T	Scating	or tongue rans on since chairs	Outer						
3.5	Housing	of stock and tongue rails	Inner						
J.5	Housing	of stock and tongue rans	Outer						
3.6	Conditio	on of fitting of switches	1						
3.7	Packing	condition under switch assembly							
4	Creep a	t toe of switch	1						
5	Throw (of Switch at ATS	Inner						
	Imow	Witten at 1415	Outer						
6	Diverge	nce At Heel Block	Inner Outer						
	Diverge	Avergence At Heel Block							
_	Straight	ness of Straight (Measured on 10	Stock Rail						
7	mt. choi		Tongue Rail						
0	W/22-1-	Tanana Dall and Charle Dall		Swi	tch 1	Swi	tch 2		
8	wear in	Tongue Rail and Stock Rail		Inner	Outer	Inner	Outer		
8.1		At point with 13 mm head width (as	Vertical						
0.1	Tongue	per Annexure 2/6/1)	Lateral						
8.2	Rail	At point where tongue rail and stock	Vertical						
0.2		rail level is same	Lateral						
0.2	Stock	At point where tongue rail and stock	Vertical						
8.3	Rail	rail level is same	Lateral						
9		e between gauge faces of stock rails at	JI	Swi	tch 1	Swi	tch 2		
10	Distance	e between web to web of Tongue Rails	3						
10.1	Leading	stretcher bar							

10.2	Ist following stretcher bar								
10.3	IInd following stretcher bar								
11	Gap between top edge of stretcher bar and bo rail foot	ottom of							
11.1	Leading stretcher bar	Inner							
		Outer							
11.2	Ist following stretcher bar	Inner							
		Outer							
11.3	IInd following stretcher bar	Inner							
	-	Outer							
12	Clearance at JOH		T		Т				
12.1	On Open tongue rail side	Straight							
	on open tongue tun stat	Turnout							
12.2	On Closed tongue rail side	Straight							
		Turnout							
13	Gauge and X-Level in Switch and Lead Portion	on		Straig	ht Side		Turno	ut Side	
			Swit	tch 1	Switch 2				
			Gauge	X- Level	Gauge	X- Level	Gauge	X- Level	
13.1	At 450 mm ahead of toe of switch								
13.2	At ATS between the two stock rails								
13.3	At 150 mm behind toe of switch								
13.4	At heel of switch								
13.5	At 3 m interval in lead portion:	Station 0							
		1							
		2							
		3							
		4							
		5							

14	Versine in Switch and Lead Portion		S	witch 1 aı	nd Switch	2				
14	versine in Switch and Lead Fortion		In	ner	Οι	ıter				
		(Heel/ATS)								
		1								
		2								
		3								
		4								
		5								
15	Condition of Crossing		Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	Xing 2
15.1	Sign of Propogation of crack (if any)									
15.2 16	Burring on top surface at nose Type of Crossing									
17	Wear of Crossing		Λ	cute Xing	. 1	Λ	cute Xing	. 2		
			Left Wing Rail	On Nose	Right Wing Rail	Left Wing Rail	On Nose	Right Wing Rail		
				Obtuse	Xing 1			Obtuse	Xing 2	
			No	se 1	No	se 2	No	se 1	Nos	se 2
			On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail
18	Clearance of wing rail opposite Nose of cro	ossing and upto	Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	Xing 2
	450 mm towards heel end		Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
19	Gauge and Cross Level		Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	Xing 2
	Shage and Cross Ecres	<u> </u>	Straight	Turnout	Straight	Turnout	Straight	Turnout	Straight	Turnout
19.1	1 m ahead of ANC	Gauge								
		X-Level								

19.2	150 mm ahead ANC	Gauge								
17.2	130 mm anedd 7110	X-Level								
19.3	150 mm behind ANC	Gauge								
17.3	130 mm bennig Aive	X-Level								
19.4	1 m behind ANC	Gauge								
17.1	Thi beling the	X-Level								
20	Condition of check rail and its fittings		Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	Xing 2
20.1	Raised Check Rail									
20.2	Other bearing, plates, keys, blocks, bolts and elastic fastening									
21	Check Rail Clearance		Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	Xing 2
			Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
21.1	Opposite ANC									
21.2	500 mm ahead towards toe of crossing									
20.3	500 mm behind heel of crossing									
20.4	At the flared end towards heel									
20.5	At the flared end towards toe									
22	Remarks									



PROFORMA FOR INSPECTION OF POINTS AND CROSSINGS

Diamond Crossing: with Double Slip

Stati	on				
Poin	t No.				
Loca	ition				
Туре	e of rail				
Date	of laying				
Date	of laying reconditioned crossings :				
Date	of laying reconditioned switches :				
Туре	e of sleeper/assembly				
	e of crossing				
Nom	inal gauge of turnout				
1	Sleeper Details				-
1.1	Condition of sleepers				
1.2	Squaring				
1.3	Spacing				
2	Ballast Details				
2.1	Condition of ballast				
2.2	Condition of drainage				
2.3	Ballast in shoulders and cribs				
2.4	Clean ballast cushion (mm)				
3	Condition of Switch Assembly	Switch 1	Switch 2	Switch 3	Switch 4

er chipped or cracked over 200 mm length	Inner								
whether empped or cracked over 200 mm length within 1000 mm from ATS									
1000 lilli Itolii A13	Outer								
Whether twisted or bent (causing gap of 5 mm or									
toe)	Outer								
Whether knife edge									
	Outer								
Seating of tongue rails on slide chairs									
g of stock and tongue rails	Inner								
g of stock and tongue rans	Outer								
ion of fitting of switches									
Packing condition under switch assembly									
Creep at toe of switch									
Throw of Switch at ATS									
Discussion Ad Heal Block									
gence At neel block	Outer								
	Stock								
ora)	Tongue Rail								
in Tongue Dell and Steels Dell		Swit	tch 1	Switch 2		Switch 3		Switch 4	
in Tongue Ran and Stock Ran		Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
At point with 13 mm head width (as	Vertical								
per Annexure 2/6/1)	Lateral								
Rail At point where tongue rail and									
stock rail level is same	Lateral								
At point where tongue rail and	Vertical								
Stock Rail stock rail level is same									
	er knife edge g of tongue rails on slide chairs g of stock and tongue rails gion of fitting of switches g condition under switch assembly at toe of switch y of Switch at ATS gence At Heel Block htness of Straight (Measured on 10 ord) in Tongue Rail and Stock Rail At point with 13 mm head width (as per Annexure 2/6/1) At point where tongue rail and stock rail level is same At point where tongue rail and	er twisted or bent (causing gap of 5 mm or toe) Outer Inner Outer I	retwisted or bent (causing gap of 5 mm or toe) outer Inner Outer In	ret twisted or bent (causing gap of 5 mm or toe) The to	ret twisted or bent (causing gap of 5 mm or toe) or knife edge or knife edge or knife edge outer Inner Outer At point with 13 mm head width (as per Annexure 2/6/1) At point where tongue rail and stock rail level is same At point where tongue rail and etoek rail level is same At point where tongue rail and etoek rail level is same At point where tongue rail and etoek rail level is same At point where tongue rail and etoek rail level is same At point where tongue rail and etoek rail level is same Vertical Vertical	re twisted or bent (causing gap of 5 mm or toe) Outer Stock Rail Tongue Rail and Stock Rail At point with 13 mm head width (as per Annexure 2/6/1) At point where tongue rail and stock rail level is same At point where tongue rail and etock rail laval is same At point where tongue rail and etock rail laval is same At point where tongue rail and etock rail laval is same At point where tongue rail and etock rail laval is same Vertical At point where tongue rail and etock rail laval is same At point where tongue rail and etock rail laval is same At point where tongue rail and etock rail laval is same Vertical At point where tongue rail and etock rail laval is same	Inner visited or bent (causing gap of 5 mm or too) or knife edge or knife edge of tongue rails on slide chairs of soft tongue rails on slide chairs of soft tongue rails on slide chairs of soft tongue rails of switch at too of switches go condition under switch assembly at toe of switch of Switch at ATS outer Inner Outer Outer Outer Outer Inner Outer Stock Rail Tongue Rail in Tongue Rail and Stock Rail At point where tongue rail and stock rail level is same At point where tongue rail and stock rail level is same At point where tongue rail and stock rail level is same Inner Outer Switch 1 Switch 2 Switch 1 Inner Outer Inne	re twisted or bent (causing gap of 5 mm or toe) Outer Inner Outer Outer Inner Inner Outer Inner Inner Outer Inner Inner Outer Inner Inner Inner Inner Inner Inn	retwisted or bent (causing gap of 5 mm or toe) Inner

9	Distance between gauge faces of stock rails at JOH		Swi	tch 1	Sw	itch 2	Swi	tch 3	Swi	tch 4
10	Distance between web to web of Tongue Rai	ls								
10.1	Leading stretcher bar									
10.2	Ist following stretcher bar									
10.3	IInd following stretcher bar									
11	Gap between top edge of stretcher bar and b	oottom of ra	ail foot							
11.1	.1 Leading stretcher bar									
11.1										
11.2	2 Ist following stretcher bar									
11,2	1st following stretcher our	Outer								
11.3	3 IInd following stretcher bar									
		Outer				T		1		
			-2							
12	Clearance at JOH		1		1		T		I	
12.1	On Open tongue rail side	Straight								
	1 0	Turnout								
12.2	On Closed tongue rail side	Straight								
13	Gauge and X-Level in Switch and Lead Port	Turnout	Straight Side		Turnout		ut Sido			
13	Gauge and A-Level in Switch and Lead I of	1011	Switch 1 s	and Switch		and Switch	Switch 1 and Switch		Switch 2 and Switch	
				2	Switch	4	3		4	
			Gauge	X-Level	Gauge	X-Level	Gauge	X-Level	Gauge	X-Level
13.1	At 450 mm ahead of toe of switch									
13.2	13.2 At ATS between the two stock rails									
13.3	13.3 At 150 mm behind toe of switch									
13.4	At heel of switch									
13.5	At 3 m interval in lead portion:	Station 0								

		3								
		1								
		2								
		3								
		4								
		5								
				Switch 1 and Switch 3			Switch 2 and Switch 4			
14	Versine in Switch and Lead Portion		In	ner	Outer		Inner		Outer	
		(Heel/ ATS) 0								
		1								
		2								
		3								
		4								
		5								
15	Condition of Crossing		Acute Xing 1		Acute Xing 2		Obtuse Xing 1		Obtuse Xing 2	
15.1	Sign of Propogation of crack (if any)			-						
15.2	Burring on top surface at nose									
16	Type of Crossing						ч			
17	Wear of Crossing			Acute Xing	1 A		Acute Xing 2	2		
			Left Wing Rail	On Nose	Right Wing Rail	Left Wing Rail	On Nose	Right Wing Rail		
				Obtuse	Xing 1			Obtuse	Xing 2	
			Nose 1		Nose 2		Nose 1		No	ose 2
			On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail	On Nose	Wing Rail
18	Clearance of wing rail opposite Nose of crossin	g and	Acute	Xing 1	Acute	Xing 2	Obtuse	Xing 1	Obtuse	e Xing 2

	upto 450 mm towards heel end		Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
19	Gauge and Cross Level		Acute Xing 1		Acute	Xing 2	Obtuse Xing 1		Obtuse Xing 2	
17			Straight	Turnout	Straight	Turnout	Straight	Turnout	Straight	Turnout
19.1	I m ahead of ANC	Gauge								
17.1		X-Level								
19.2	150 mm ahead ANC	Gauge								
17.2	130 mm unead 711 ve	X-Level								
19.3	150 mm behind ANC	Gauge								
17.3	130 mm bennid ANC	X-Level								
19.4	1 m behind ANC	Gauge								
17.7		X-Level								
20	Condition of check rail and its fittings		Acute	Xing 1 Acute Xing 2		Xing 2	Obtuse Xing 1		Obtuse	Xing 2
20.1	Raised Check Rail									
20.2	Other bearing, plates, keys, blocks, bolts and fastening	elastic								
21	Check Rail Clearance		Acute Xing 1 Acute Xing 2		Obtuse Xing 1		Obtuse Xing 2			
			Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer
21.1	Opposite ANC									
21.2	500 mm ahead towards toe of crossing									
20.3	500 mm behind heel of crossing									
20.4	At the flared end towards heel									
20.5	At the flared end towards toe									
22	Remarks									



भारत सरकार रेल मंत्रालय (रेलवे बोर्ड)

GOVERNMENT OF INDIA MINISTRY OF RAILWAYS (RAILWAY BOARD)

INDIAN RAILWAYS BRIDGE MANUAL 1998

INDIAN RAILWAYS BRIDGE MANUAL

EDITION - 1998

ADVANCE CORRECTION SLIP NO. 26 Dated 23.08.2013

(i) Existing Para 217.2 (a)(ii) is to be replaced as below:

217.2 (a) (ii)

Finishing Coat:

Two cover coats of paint to IS:13607 with colour/shade to be specified by Zonal Railway or any other approved paint applied over the primer coats.

Note: (i) The colour/shade of finishing coat should be generally matching with the Smoke Grey colour/shade No. ISC 692 mentioned in IS:5-2004.

(ii) The colour/shade can be changed by CBE as per the local regirements.

(ii) Existing Para 217.2 (c) is to be replaced as below:

Para 217. 2 (c)

In case where the priming coat is in good condition the steel work is painted with two coats of paint to IS:13607 with colour/shade to be specified by Zonal Railway or paint aluminium to IS:2339 depending on the severity of corrosion.

Note: (i) The colour/shade of finishing coat should be generally matching with the Smoke Grey colour/shade No. ISC 692 mentioned in IS:5-2004.

(ii) The colour/shade can be changed by CBE as per the local regirements.

(iii) Existing Para 217.4(c) is to be replaced as below:

Para 217.4(c)

Para deleted

(iv) Existing Para 217.4(d) is to be replaced as below:

Para 217.4(d)

While painting with IS: 13607, a little quantity of same paint of other shade shall be added to the paint while doing the first coat to distinguish it from the second coat. Similarly, in the case of aluminium paint a little blue paint can be added for 1st coat.



(v) Existing Para 217.4(e) is to be replaced as below:

Para 217.4(e)

Paints should be used within the prescribed shelf life from the date of manufacture. The quantity of paint procured should be such that it is fully utilised before the period prescribed for its use. The shelf life of various paints used in the Railways are as follows:

- i) Paint Ready mixed Zinc Chrome Primer (IS: 104): 1 Year
- ii) Paint to IS:13607 with colour/shade to be specified by Zonal Railway: 1 year
- iii) Paint aluminium:

When paste and oil are not mixed: 1 year When paste and oil are mixed: 4 months

- iv) Oil linseed boiled: 2 years
- v) Paint ready mixed Red Oxide Zinc Chrome (IS:2074): 1 year
- vi) Red Oxide Zinc Chromate Primer (IRS-P-31): 1 year.
- (vi) Existing Para 217.4(I) is to be replaced as below:

Para 217.4.(I)

Each coat of paint shall be left to dry till it sufficiently hardens before the subsequent coat is applied.

(vii) Existing Para 615 is to be replaced as below:

Para 615

Preparation of surface:

The surface of steel work should be carefully prepared by removing mill scales, rust, grease etc. using wire brushes, sand or grit blasting as required.

The surfaces and locations which will be in permanent contact after assembly by riveting should be given a heavy coat of red oxide zinc chrome priming to IS: 2074.

13/



GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

INDIAN RAILWAYS TRACK MACHINE MANUAL - 2000

RESEARCH DESIGNS AND STANDARDS ORGANISATION LUCKNOW 226 001

6/9/13

CORRECTION SLIP TO INDIAN RAILWAY TRACK MACHINE MANUAL MARCH 2000

Correction Slip No. 12

- The annexure 8.2 as given on page 205 of Indian Railways Track Machine Manual-2000 may be replaced with annexure 8.2.1, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6 & 8.2.7 and a new annexure 8.3 may be added. These annexures are enclosed with this correction slip.
- Table 6.2 in paragraph no 6.3.5 given at page number 183 is modified as per table 6.2 enclosed with this correction slip.
- In para 8.4.5, the mention of "annexure 8.2" within bracket in last sentence is replaced with "Annexure 8.2.1, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.6, 8.2.7 & Annexure 8.3"



Modified Table 6.2

S. No.	Items	Quantity
1.	Welding plant	1
2.	Bench grinder	1
3.	Bench vice and a work table	1
4.	Drill machine	1
5.	Tool kit	1
6.	Portable filter	1
7.	Portable crimping machine	1
8.	Hot air blowers	1
9.	Digital Multimeter	1
10.	Accumulator pressure checking and filling device PC-250 complete	1 set
11.	Torque wrench	1 set
12.	Pendulum calibration pads.	1 set
13.	Versine measuring chord	1
14.	Go-No-Go gauge for tamping tynes	1
15.	Tamping tool profile bore gauge	2
16.	Steel scale 1' to 6"	1 set
17.	Taper gauge upto 1"	1
18.	Feeler gauge	1
19.	Thread gauge	1
20.	Cell Tester (battery voltage)	1



R Major changes in the layout indeessary as per requirelepties may be carried out with the promove of cleaf engineer. Total three paraset fan to be promoted one in each for store, attorem and tomet, all dimensions are in im -: TOBMKS 由 \pm SE 10 W EMERGENCY LIGHT 15 W CPL ROOF SUNKEN SUME IN TUBE LICHT SIMIL BE PROVIDED ON WALL
SMITCH BOWND SIMIL BE PROVIDED ON WALL
POWER POINT SIMIL BE PROVIDED ON WALL 1672 0 OPEN GI **®** 12 0 STORE 1397 0 BB 0000000 S 0 Ö ₩ BED SEC BS LIVING AREA 2527 Ð 0 FOLDMAREA
LYMNG AREA VAOS KELLYSS 3378 THE ADDITIONAL ROOF CELING (FLISE CELING) SAULT BE PROVIDED FOLLOWING THE SAUE CLIMATURE OF EXISTING ROOF CELING WITH MINIMUM HEIGHT OF 2450mm AT THE CENTRE FROM FLOOR LASE HEIGHT OF 2450mm AT THE CENTRE FROM FLOOR HEIGHT OF ALLENG DOOR AS PER DESIGN IN PARCEL VANS. SMRIE LEF HHGED DOORS OF LIGHT WITTHE SMILL BE PROVIDED WITH AUTO DOOR CLOSHIG SYSTEM. THE DOOR WIDTH SHALL BE 700/600/ 320mm.RESPECTIVELY.

REFERENCY WHODE ROSO SPECIFICATION 21337 OVER BODY 14783 CRS. OF BOGIES **®** SPECIFICATION 22297 OVER BUFFERS ĐED **B** BLIMING AREA 0 4229 LIMING AREA SCALE **®** BED Ð æ U LIVING AREA 2527 DESCRIPTION **(D** 1676 Φ AUTHY O ဂ∏ြ B DRG. CANG./SUPED CAMP COACH FOR TRACK
MACHINES STAFF ON SLEEPER
COACH BASED ON RDSO DRG:
NO. CSC-1640 OR SIMILAR 1433X1884 1748 8 0 CODE-(RCC) .D RDSO/TM/02/11 車 1480 ANNEXURE-8.2.2 İs 0

F INFOR CHANGES IN THE LAY OUT NECESSARY AS PER LOCAL REQUIREMENTS MAY BE CARRED OUT WITH THE LAPROVAL OF PRINCIPAL CHEF ENGINEER. TOTAL THREE EXHAUST FAN TO BE PROVIDED ONE IN EACH FOR STORE, KITCHEN AND TOLLET, DIMENSIONS ARE IN MA 96889

0

ROSO SPECIFICATION

SPECIFICATION

SCALE

ALT

DESCRIPTION

AUTHY DRG. No. RDSO/TM/01/11

CAMP COACH FOR TRACK MACHINES STAFF ON GS COACH BASED ON RDSO DRG. NO. CSC-1592 OR SIMILAR

(CODE-RCC)

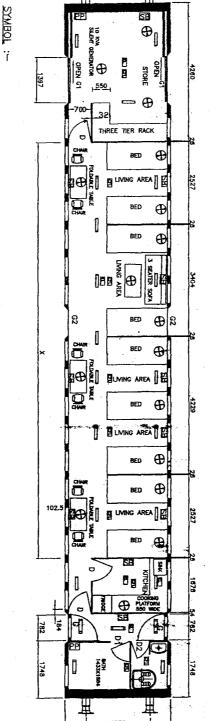
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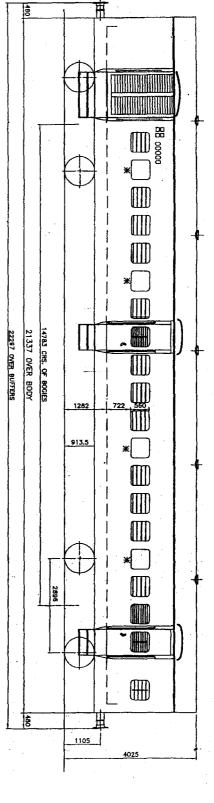
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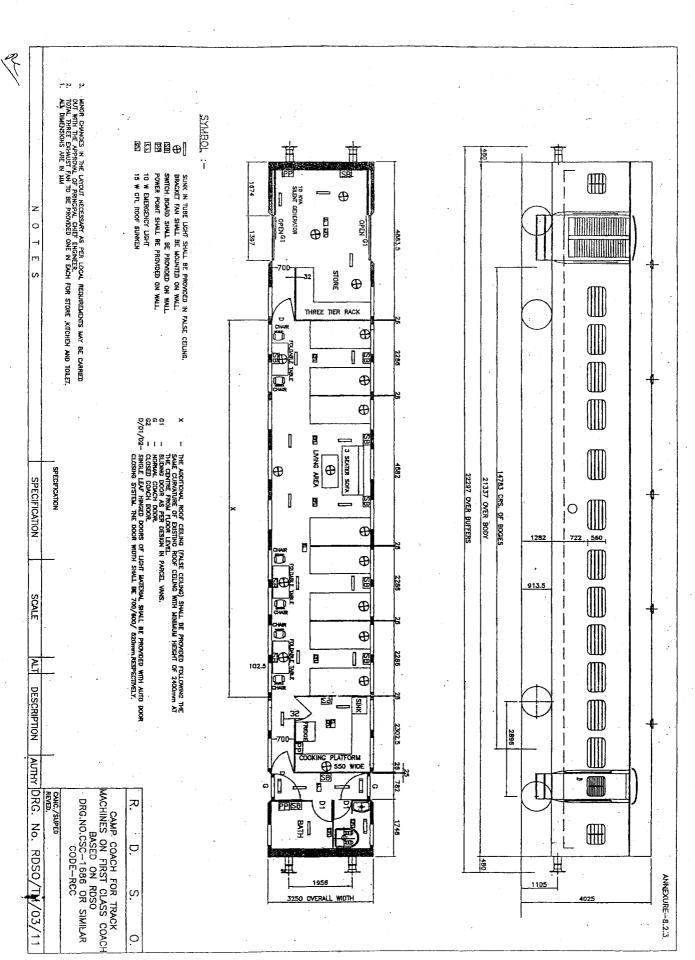




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ANNEXURE-8.2,1



ANNEXURE-8.2.4

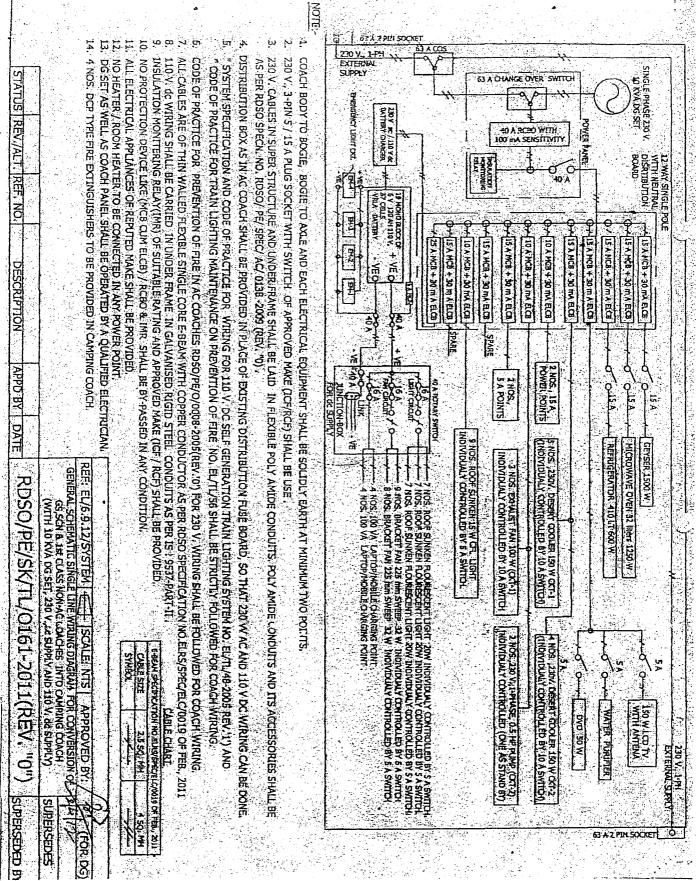
AMMENITIES TO BE PROVIDED IN CAMP COACH

SL. NO.	DESCRIPTION	QUANTITY
A.	KITCHEN	
1.	Fire extinguisher	02 nos
2.	Commercial Gas Connection with double cylinder	01 set
3.	Four burner LPG Gas stove	01 no.
4.	RO+UV water purifier	01 no.
5.	Refrigerator–410 lit. capacity	01 no.
6.	Dinner set	01 no.
7.	Thermos 02 lit. cap.	02 nos.
8.	Gas Lighter	02 nos.
9.	Presser cooker 5 lit. cap	01 no.
10.	Presser cooker 3 lit. cap.	01 no.
11.	Casserole 10" dia.	04 nos.
12.	Bhagona Copper base as per required sizes	04 nos.
13.	Plate steel 12" dia.	10 nos.
14.	Kadhaee	02 nos.
15.	Spatula (Karchhul) of various sizes	03 nos.
16.	Service spoon Big	03 nos.
17.	Service spoon small	03 nos.
18.	Service bowl big	03 nos.
19.	Gripper	02 nos.
20.	Tea mug	12 nos.
21.	Stainless Steel Spice Box	01 no.
22.	Stainless steel Container 2 lit.	06nos.
23.	Stainless Steel Container for Floor 15 lit.	01 no.
24.	Stainless Steel Container for Rice 15 lit.	01 no.
25.	Stainless Steel Container for water 20 lit.	01 no.
26.	Stainless Steel Bucket 15 lit.	01 no.
27.	Hot chapatti case	02 nos.
28.	Sink	01 no.
29.	Stool for work	02 nos.
30.	Tea set	01 no.
31.	Tea Strainer (Stainless Steel)-4"	01 no.
32.	Tea spoon	12 nos.
33.	Stainless Steel Utensil Stand (Wall Hanging)	01 no.
34.	Stainless Steel Sauce-Pan (Copper Base) 1 lit.	01 no.
35.	Hot plate iron (Tawa)-12"with handle	01 no.
36.	Pastry Board (Chakla) 10"	01 no.
37.	Pastry Roller (Belna)	01 no.
38.	Fridge water Bottle 1 lit.	6 no.
39.	Dustbin	1 no.



SL.NO.	DESCRIPTION	QUANTITY
B.	LIVING AREA	
1.	LCD/LED Television 28".	01 no
2.	Satellite antenna for TV (DTH)	01 no.
3.	230V AC Desert cooler	≃96 nos.
4.	Lap Top	01 no.
5.	Foldable tubular chairs	06 nos.
6.	Folding tables- 1000 x 500 mm.	03 nos
7.	Wooden Centre Table 1000X500 mm.	01 no.
8.	Radio/Audio Player	01 no.
9.	Pillow Durafoam/Sleepwell	10 nos.
10.	Pillow cover	20 nos
11.	Curtain	on each window
12.	Bed sheets (Single Bed)	20 nos.
13.	Mosquito net	10 nos.
14.	Woolen Blanket (Raymond)	10 nos.
15.	Sofa	One 3 seater as per the
		space available.
16.	Insulated Water jug 10 lit. cap	02 nos.
c.	BATH AREA	
1.	Geyser 20 lit. cap.	01 no.
2.	Bucket 20 lit. capacity	06 nos.
3.	Mug	02 nos.
4.	Aluminium/Stainless Steel Stool	02 nos.
D.	STORE	
1.	Welding set 5 KVA	01 no.
2.	Water lifting pump	02 nos.
3.	Portable Drilling machine	01 no.
4.	Portable grinding machine	01no.
5.	Diesel filling pump	01 no.
6.	Silent DG set 10 KVA	01 no.
7.	Foulding Cot (Single Bed)	





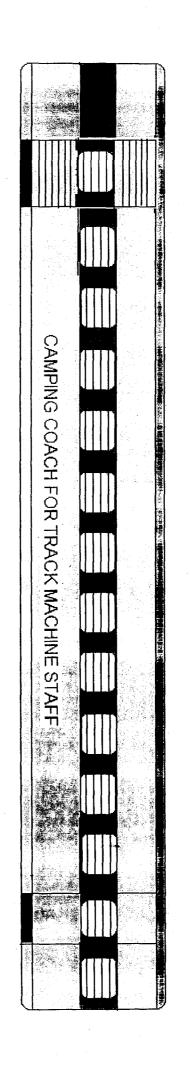
ANNEXURE-8.2.6

PAINT SCHEME FOR CAMP COACH

Following painting system shall be followed:

Grit blasting Isophthalic putty	
3. Primer red oxide zinc chromate to IS: 2074	One coat
4. Filler grey to IS:110	One coat
5. Kniffing stopper (Putty) to IS:5083	1 st coat
6. Wet rubbing	
7. Kniffing stopper (Putty) to IS:5083	2 nd coat
8. Wet rubbing	
9. Necessary putty	
10. Wet rubbing	
11. Filler grey to IS:110	2 nd coat
12. Dry rubbing	
13. Undercoat, synthetic enamel to IS:8662	One coat
14. Dry rubbing	
15. Finish coat, Synthetic enamel to IS:8662	One coat
16. Glaze coat (1:1 mixture of synthetic enamel to IS:8662	
& Synthetic clear varnish to IS: 524)	
17. Lettering	





Golden Yellow
Indigo
Light Turquish
Black

Annexure-8.3

The camp coach shall be provided with Air Brake System. The coupling to be provided shall be normal IR standard screw coupling. The following modification work for non-AC Camping Coaches shall be performed in standard coach as per Annexure 8.2.1, 8.2.2 and 8.2.3 and the amenities shall be provided as per annexure-8.2.4. The drawing in Annexure-8.2.1, 8.2.2 & 8.2.3 and amenities suggested vide Annexure-8.2.4 is only for guidance purposes and Railways may decide to have different drawing & amenities as per their local requirements. Railway may convert selective cabin/cabins into Air Conditioned cabin/cabins as per requirement. In this respect, electrical circuit may be modified accordingly.

1.0 LIVING AREA:

The living area in the proposed layouts is marked as 'X'.

- 1.1 Additional roof ceiling (False ceiling) shall be provided following the same curvature of existing roof ceiling with minimum height of 2400 mm at centre from floor level. This will reduce the heat in the coach.
- 1.2 Beds shall be provided at the level of lower berths as in 1st AC coaches
- 1.3 The size of beds shall be 1850 X 850 mm and should be box type with cushion top as in 1st AC coaches.
- 1.4 The beds shall be boxed type and can be open in upward direction to accommodate linen items etc.
- 1.5 Upper existing berths shall be removed.
- 1.6 In place of upper existing berths, wooden cabinets shall be provided of size 1850x300x300 mm (approx) above all the beds just below the false ceiling
- 1.7 Flooring in this area shall be of same standard as in the 1st AC class.
- 1.8 Sofa, tables and chairs shall be provided as shown in the drawing.

2.0 KITCHEN:

- 2.1 Layout and dimensions shall be as per annexure no. 8.2.1, 8.2.2 and 8.2.3.
- 2.2 Granite/Marble top shall be provided on cooking platform (550 mm wide).
- 2.3 One of the existing water tanks of the coach shall be used for water arrangement.
- 2.4 One exhaust fan shall be provided at suitable location.

3.0 BATHING AREA & TOILET:

- 3.1 One of the existing water tanks of the coach shall be used for bathroom water arrangement. Complete bath fittings as available in AC 1st Class coach, shall be provided in bathing area.
- 3.2 The toilet shall be of 'bio-toilet' type being used in Indian Railways. In this regard Schedule of Tech. Requirement no. C-9908 Rev.1 issued by RDSO may be followed as guidelines.



4.0 ELECTRIFICATRION PLAN:

The electric supply arrangement shall be as in annexure-8.2.5.

- 4.1 Battery blocks provided with the coach shall be utilized as it is, except the self generating equipment and alternator. In place of these, a 230V AC/110V DC battery charger will be provided for the purpose of charging of coach batteries. The coach electrification shall be from following three source of supply.
- 4.1.1 Electricity may be obtained from outside supply available at Railway stations/Sidings.
- 4.1.2 A 3-phase 10KVA silent DG set will be housed in camp coach for fulfilling the requirement of electricity.
- 4.1.3 In case of failure of batteries, there shall be the provision of 9 roof sunken CFL to be illuminated by AC supply.
- 4.2 The electrical appliances/fittings to be provided in camp coach are being listed below.
- 4.2.1 Fluorescent lights roof Sunk in-21 nos.
- 4.2.2 Brackets fans 225mm 17 nos.
- 4.2.3 Roof sunk in lights (CFL-15W) 09 nos.
- 4.2.4 Exhaust fan 03 nos.
- 4.2.5 Power point 15A 02 nos.
- 4.2.6 Plug point -02 nos.
- 4.2.7 Emergency lights-04 nos.

5.0 STORE MANAGEMENT:

- 5.1 Store room shall be provided, for keeping the small spares of the machine, as shown in the camp coach layout.
- 5.2 This store shall be provided with cabinets/rakes at suitable height with locking arrangement.
- 5.3 In addition to store given in coach layout additional under slung boxes shall be created for heavy spares of the machines. These boxes shall be used for keeping empty drums, hydraulic hoses and heavy spares of the machine. The design of the boxes shall be according to the requirement for particular machine. The safety factor for welding work of the boxes shall be sufficiently high so that there shall be no failure on account of welding work.
- 5.4 Existing water tanks of store side shall be removed.

6.0 DOORS:

- D, D1 and D2 as shown in annexure 8.2.1, 8.2.2 and 8.2.3 respectively are indicating the doors of size 700/600/520mm.
- 6.2 G indicates normal size of the coach gate.



- 6.3 G1 indicates the sliding doors similar to parcel van gate to accommodate the DG set and heavy store items.
- 6.4 G2 shown in annexure 8.2.1, indicates closed coach door.

7.0 WINDOWS:

- 7.1 Wire mesh on all windows from outside for mosquitoes/insects protection.
- 7.2 Curtains on all windows.
- 7.3 Suitable rain-shed should be provided on each window.
- 7.4 Window frames shall be sealed suitably to prevent water leaking during rain.

8.0 PAINT SCHEME FOR CAMP COACH

Paint scheme for camp coach shall be as per annexure-8.2.6 and the color combination for all coaches shall be followed as per the diagram attached as annexure-8.2.7. The diagram shown in the annexure 8.2.7 is only symbolic to show the color combination for coach.

M

Correction Slip No. 16 to Indian Railways Track Machine Manual-2000

Correction Slip 16

Para 9.6 (ii) at Page No. 211 of Chapter 9 of IRTMM-2000 is modified and may be read as under:-

9.6 Cash Imprest

(ii) An adequate cash imprest (Rs. 10,000 or more) shall be provided with the officers in-charge of Satellite Depots and of machine-groups for emergency purchase and repairs of machine components, plants, tools & machinery.



GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

INDIAN RAILWAYS SCHEDULE OF DIMENSIONS 1676 mm GAUGE (BG) REVISED - 2004

RESEARCH DESIGNS AND STANDARDS ORGANISATION LUCKNOW 226 001

Addendum & Corrigendum Slip (ACS) No. 13

Τо

Indian Railways Schedule Of Dimensions (B.G.) 2004

I. Amendment To Para-10 Of Chapter-I: General

{At Page - 6 & 7 Of IRSOD 2004 And Subsequently Revised Vide ACS No. 10} In Schedule-I of IRSOD, Revised 2004

Para 10 shall be read as under:

10. Height of Road Over Bridges and Foot Over Bridges:

- (a) Minimum height above rail level for a distance of 915mm on : 4875 mm either side of the centre of track for overhead structures
- (b) Where D.C. electric traction is in use or is likely to be used, this : 5410 mm dimension shall be
- (c) Where 25 kV A.C. traction is likely to be used, the minimum height above rail level for a distance of 1600mm on either side of the centre of track shall be as under:
 - (i) Light Overhead Structures, such as Foot Over Bridges : 6250 mm
 - (ii) Heavy Overhead Structures, such as Road Over Bridges and : 5870 mmFlyovers

Note:

- (a) See Appendix for 'extra clearance required on curves'.
- (b) In case of restricted height of existing structures, a special study shall be made, as indicated in Appendix-A to Chapter V-A before 25 kV AC traction is introduced.
- Accordingly, only in such cases, the minimum height above rail level shall not be lower than 5070mm in case of Heavy Overhead Structure (such as Road Over & Flyovers) and 5270mm in case of Light Overhead Structures (such as Foot Over Bridges) for a minimum contact wire height of 4800mm from above rail level. OHE arrangements shall be as per RDSO Drawings.
- (c) In areas where 25 KV A.C. traction is used or likely to be used, if any turnout or crossover is located under a heavy overhead structure or within 40 metre from its nearest face, irrespective of the position of level crossing gate, the minimum height of such overhead structure shall be 6250mm. In case the turnout is beyond 40 m; but the level crossing gate is within 520 metre from the nearest face of the bridge, the height of such overhead structure shall be 6250mm.
- (d) The height mentioned against items 10(a), 10(b) & 10(c) above shall be measured from the higher or super elevated rail.
- (e) On lines, existing or proposed to be electrified on 25 kV A.C. system, necessary provision shall be made in overhead structure and overhead equipment, if necessary, by using longer traction overhead equipment masts to permit an extra allowance of 275mm for raising of track in future to cater for modern track structure in the form of increased ballast cushion, larger sleeper thickness and deeper rail sections.

Railway Board's letter no. 2011/CEDO/SD/IRSOD/Elect./02, dated 21.10.2013

Page 1 of 4

* (In case of restricted height of existing heavy overhead structure, minimum height above rail level shall not be lower than 5270mm, adhering to the provisions of note (b) above).

II. Amendment To Para-11 Of Chapter-I: General

{At Page - 7 & 8 Of IRSOD 2004 And Subsequently Revised Vide ACS No. 10} In Schedule-I of IRSOD, Revised 2004

Para 11(iv) shall be read as under:

Para-11(iv) Minimum Horizontal Distance Of Structures

The minimum horizontal distance measured at right angles from the centre of nearest track to any part of a structure (all structures shall be rigid and well founded), carrying electrical conductors crossing a railway shall be:

(i) For new structure : (H + 6) metre

(ii) For existing structure : (H + 2.135) metre

{where, 'H' is the height of post/structure from nearest ground level}

Note: Any post/structure which is so constructed or guyed as to remain in a vertical position, or failing this to continue to provide the minimum clearances of 2.135m, with one or all of the conductors broken or, with its conductors attached, when subjected to maximum wind pressures, shall be considered to be a "rigid well founded post/structure".

[There is no change in in Para 11(i) to (iii) w.r.t. the existing provisions of IRSOD 2004]

III. Amendment To Para-11 Of Chapter-II: Station Yards

{At Page - 14 Of IRSOD 2004 And Subsequently Revised Vide ACS No. 10}
In Schedule-I of IRSOD, Revised 2004

Para 11 shall be read as under:

- 11. Minimum Horizontal Distance From Centre Of Track To Any Structure:
- (A) For Existing Works:
 - (i) From rail level to 305mm above rail level 1675mm

Railway Board's letter no. 2011/CEDO/SD/IRSOD/Elect./02, dated 21.10.2013

Page 2 of 4

From 305mm to 3355mm above rail level 2135mm (ii)

(iii) From 3355mm to 4115mm above rail level 2135mm decreasing

to 1980mm

From 4115mm to 6250mm above rail level (iv) 1600mm

Below the rail level and upto formation level of the (v) track on straight and curves up to radius of 875m

2575mm

(vi) Below the rail level and upto the formation level of 2725mm the track on curves with radius less than 875m

Note:

- See Appendix for 'extra clearances required on curves'. (a)
- On lines other than main lines or existing main lines, where electric traction is not likely to be introduced; the horizontal distance of 1370mm for height from 4115mm to 6100mm above rail level may be allowed to continue.
- (c) The clearance mentioned above in item (v) and (vi) shall be applicable only in new yards including its electrification works. The various fixtures, which are attached to the track; like lock bar, point machine, traction bonds, point and signal rodding etc. and are required to be fitted with the rail, can be provided and the clearance, as mentioned in item 11(v) and 11(vi) above will not be applicable to these items.
- (d) In case of electrification works in existing yards, no foundations / mast / signal post / any other structure shall be provided between two tracks. In case it is inescapable, the minimum distance of edge of foundation / mast / signal post / any other structure at and above formation level upto rail level from centre of track, shall be 2360mm. The distance shall be proportionately increased, based on available track centre distance upto minimum distance of 2575mm / 2725mm, as the case may be; as specified in Items 11A(v) and 11A(vi) above respectively.
- (e) Items 11(A)(v) and 11(B)(vi) above shall not be applicable in case of bridges.

(B) For New Works or Alteration to Existing Works:

(i) From rail level to 305mm above rail level 1905mm

From 305mm to 1065mm above rail level (ii) 1905mm increasing to 2360mm

2360mm (iii) From 1065mm to 3735mm above rail level

(iv) From 3735mm to 4420mm above rail level 2360mm decreasing to 2135mm 2135mm decreasing to 1980mm From 4420mm to 4610mm above rail level (v)

From 4610mm to 6250mm above rail level 1600mm (vi)

Below the rail level and upto formation level of (vii) the track on straight and curves upto radius of 875m

2575mm

Below the rail level and upto the formation level (viii) of the track on curves with radius less than 875m

2725mm

Note: (a) See Appendix for extra clearances required on curves.

(b) Items 11(B)(vii) & 11(B)(viii) above shall not be applicable in case of bridges.

IV. Amendment To Schedule-II of IRSOD, Revised 2004

{At Page - 32 And As Per ACS-10 Of IRSOD 2004}

- A. Notes below Para 8 & 10 shall be read as under:
- 8. General: Out Of Station

Note:

- (i) See Appendix for 'extra clearance required on curves'.
- (ii) In case of existing structures, a special study shall be made as indicated in Appendix-A to Chapter V-A of Schedule-I, before 25 kV AC traction is introduced. In case of restricted height of existing over head structure, the minimum height above rail level shall not be lower than 5070mm in case of Heavy Overhead Structure (such as Road Over & Flyovers) and 5270mm in case of Light Overhead Structures (such as Foot Over Bridges) for a minimum contact wire height of 4800mm from above rail level. OHE arrangements shall be as per RDSO Drawings.

10. Station Yards:

Note:

- (i) See Appendix for 'extra clearance required on curves'.
- (ii) In case of existing structures, a special study shall be made as indicated in Appendix-A to Chapter V-A before 25 KV AC traction is introduced. In case of restricted height of existing over head structure, the minimum height above rail level shall not be lower than 5070mm in case of Heavy Overhead Structure (such as Road Over or Flyover Bridges) and 5270mm in case of Light Overhead Structures (such as Foot Over Bridges) for a minimum contact wire height of 4800mm from above rail level. OHE arrangements shall be as per RDSO Drawings.
- B. Para 12.

Para 12 w.r.t. the existing provisions of IRSOD 2004 (ACS-10), shall be deleted.

Addendum & Corrigendum Slip (ACS) No. 14

To

Indian Railways Schedule Of Dimensions (B.G.) 2004

I. Amendment To Para-5, 17, 19, 20, 23, 24 & 25 Of Chapter-IV(A) Rolling Stock (Carriage & Wagon)

{At Page - 19, 20, 21 of IRSOD, Revised 2004 in Schedule-I}

Para - 5, 17, 19, 20, 23, 24 & 25 shall be read as under:

5. Maximum thickness of flange of tyre, measured from wheel gauge face at 13mm from outer edge of flange

29.4mm

17. Maximum distance apart of bogie centres for bogie vehicles

14900mm

19. Maximum length of body or roof for :

(a) 4 - wheeled vehicle

8540mm

(b) Bogie vehicles

21340mm

Note:

- (i) Maximum length of body or roof of bogie vehicles can be upto 23540mm, subject to tapering of the ends in a manner that the end throw, when calculated as per Appendix, is same as that for ICF coach of 21340mm length and within this Schedule of Dimensions.
- (ii) A cornice may project beyond the maximum permissible length of the roof up to 51mm in the case of (a) above, beyond each end of the vehicle.
- (iii) .Fittings on the end of a vehicle, such as step iron, vacuum brake piping, electrical connections, vestibule etc., need not be kept within the prescribed maximum permissible lengths for bodies of vehicles, but may project beyond the end of the body to a reasonable extent.
- 20. Maximum length over centre buffer couplers or side buffers:

(a) 4 - wheeled vehicle

9810 mm

(b) Bogie vehicles

22300 mm

Note: Maximum length over the centre buffer couplers or side buffers can be 24000mm for Bogie Vehicles, having maximum length of body or roof as 23540mm. However, the maximum length over the centre buffer couplers or side buffers for longer coaches as per Item 20 above shall be so arranged that difference between length over side buffers and length of body or roof is not less than 460mm.

23. Maximum width over all projections, at 305mm above rail level, when fully loaded

3050mm

24. Maximum width over all projections from 305mm above rail level, to 1082mm above rail level, when fully loaded

3050mm

25. Maximum width over all projection from 1082mm above rail level, to 1170mm above rail level, when fully loaded

3050mm increasing gradually to 3250mm

Note: For freight bogie vehicles with maximum length of body or roof upto 14500mm and bogie centre distance upto 10000mm, maximum width over all projections from 305mm above rail level to 1082mm above rail level, when fully loaded, can be relaxed to 3135mm instead of 3050mm

II. Amendment To Para-3 Of Chapter IV(B): Rolling Stock (3660mm Wide Stock)

{At Page 23; In Schedule-I of IRSOD, Revised 2004}

Para 3 shall be read as under:

3. Maximum width over open doors, including all projections, for goods 4500mm vehicles

III. Amendment To Para-11 Of Chapter IV(C): Rolling Stock (Locomotive)

{At Page 25; In Schedule-I of IRSOD, Revised 2004}

Maximum Moving Dimensions: (See New Diagram No. 1D)

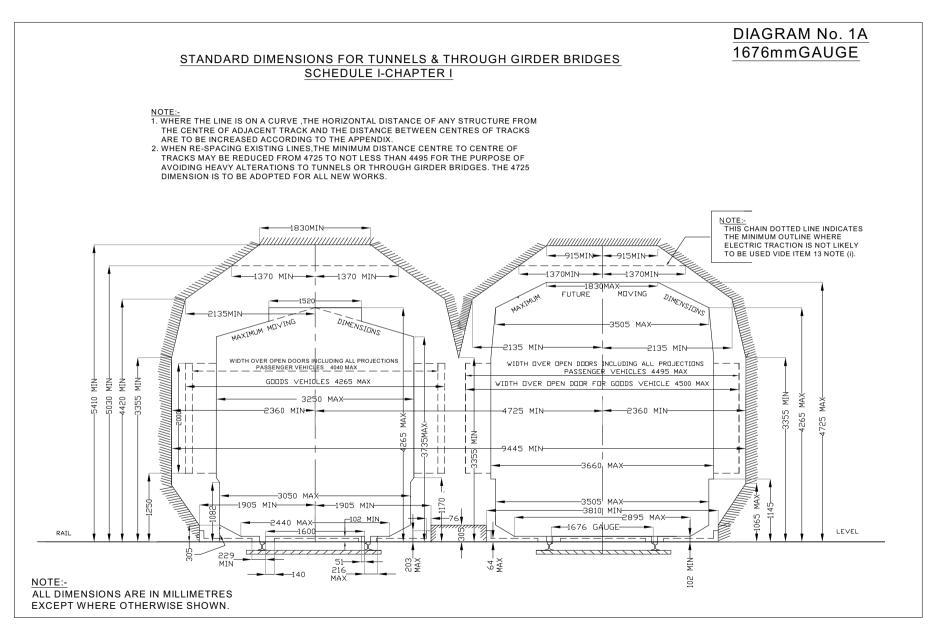
Para 11 shall be read as under:

11.A Maximum length of body or roof

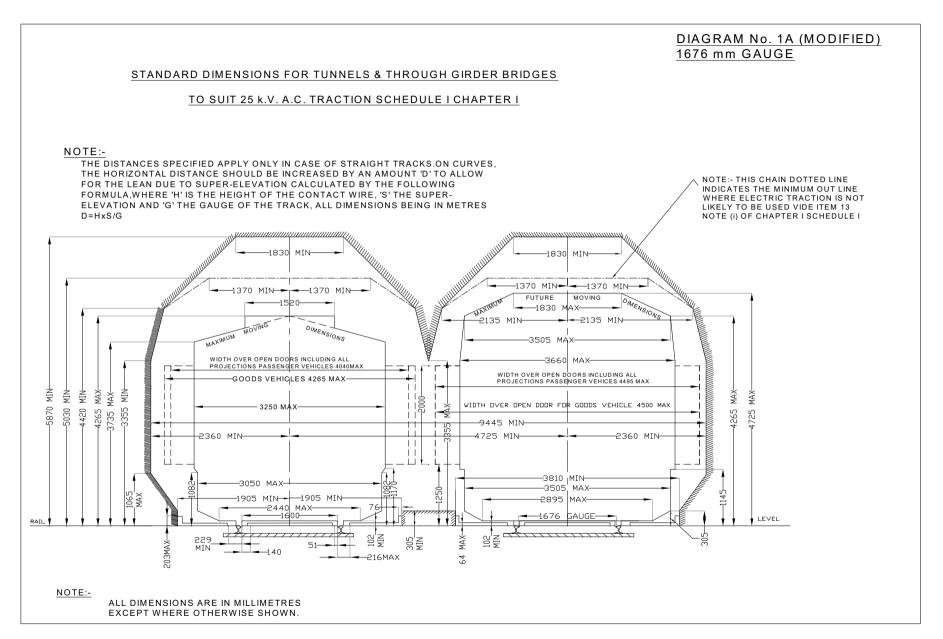
11.B Maximum length over centre buffer couplers or side buffers 22300mm

- <u>Note</u>: (i) Maximum length of body or roof can be upto 23540mm, subject to tapering of the ends in a manner that the end-throw, when calculated as per Appendix, is same as that for ICF coach of 21340mm length and within this Schedule of Dimensions.
 - (ii) Maximum length over the centre buffer couplers or side buffers for bogie vehicles can be 24000mm for locomotives, having maximum length of body or roof of 23540mm.
- 11.C Maximum width over all projections:
- (i) At 102mm above rail level, when fully loaded 2440mm
- (ii) At 305mm above rail level, when fully loaded 3050mm
- (iii) From 305mm above rail level to 1082mm above rail level, 3050mm when fully loaded
- (iv) From 1082mm above rail level to 1170mm above rail level, 3050mm increasing when fully loaded gradually to 3250mm
- (v) From 1170mm above rail level, when fully loaded, to a 3250mm height of 3735mm when empty
 - Note: (i) Maximum width over all projections from 925mm (minimum in all conditions) above rail level to 1082mm above rail level, when fully loaded can be 3075mm (in the bogie portion only).
 - (ii) Maximum distance apart of bogie centres (i.e. pivot centres) for locomotives shall be 15810mm, subject to the condition that width of locomotive at the centre is such that mid-throw, when calculated as per Appendix, is same as that for ICF coach of 21340mm length and within this Schedule of Dimensions.

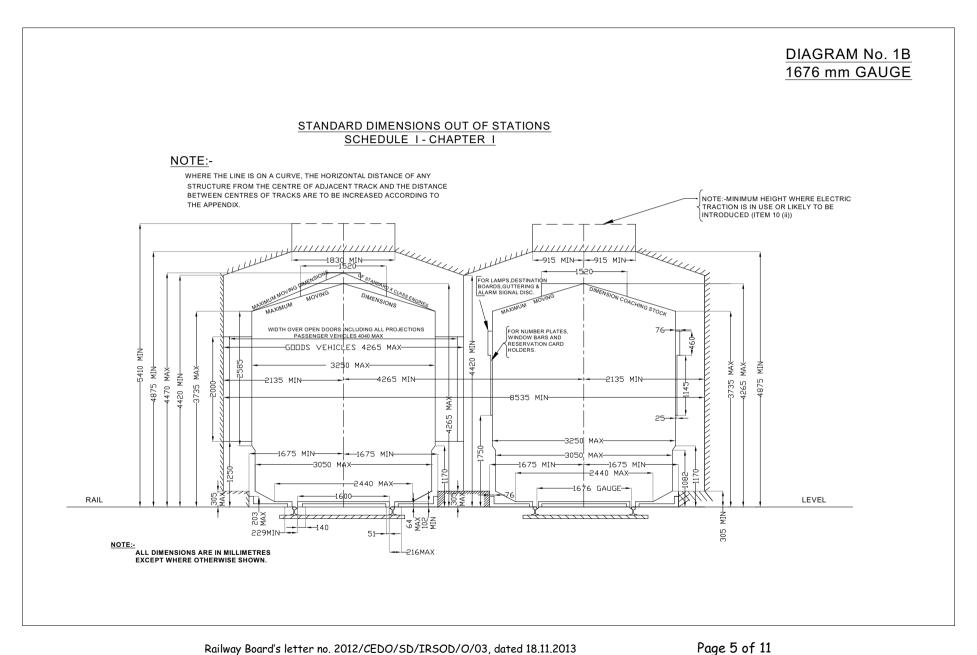
21340mm

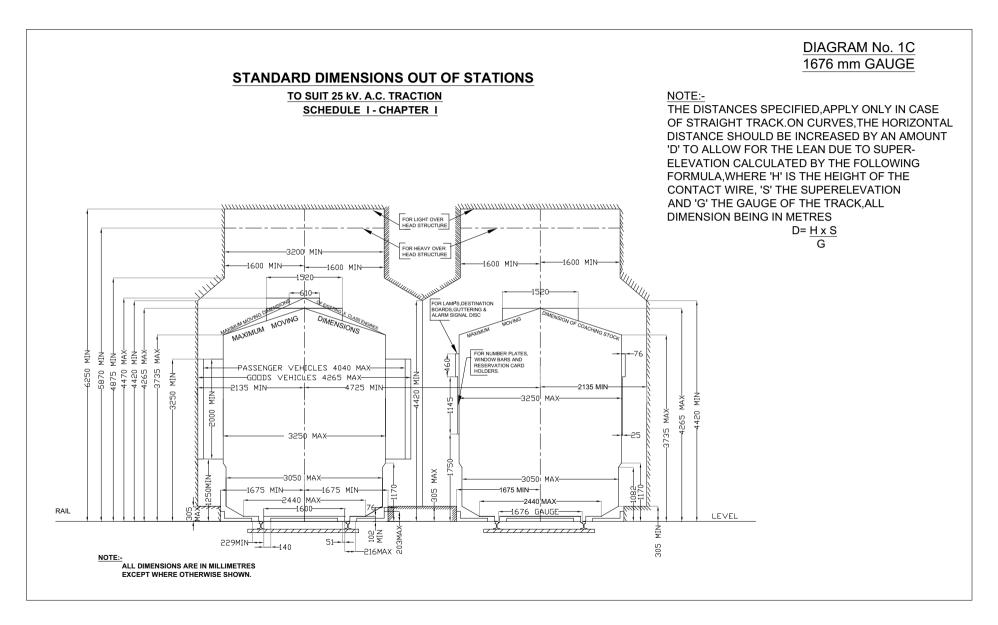


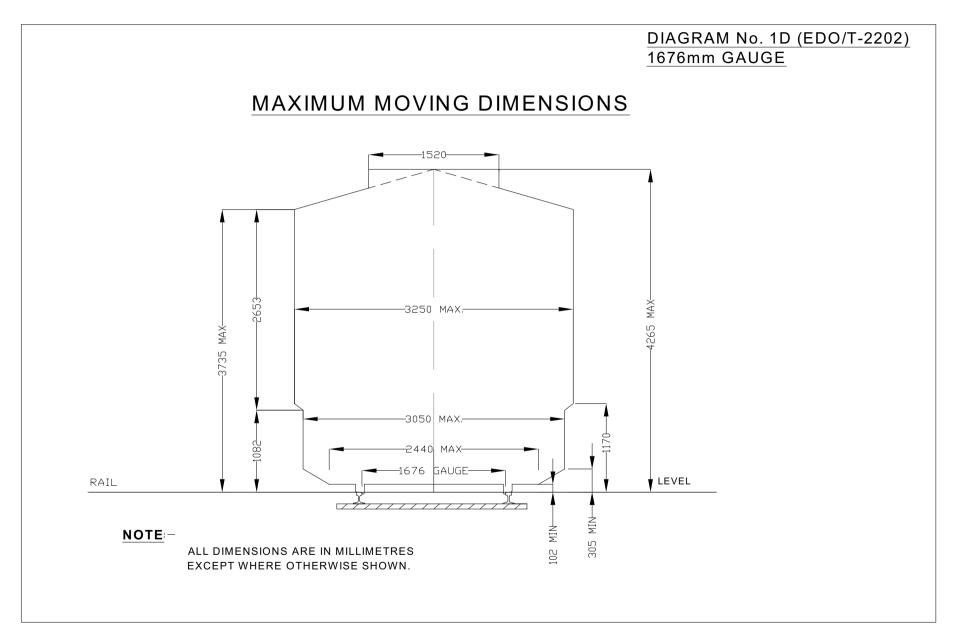
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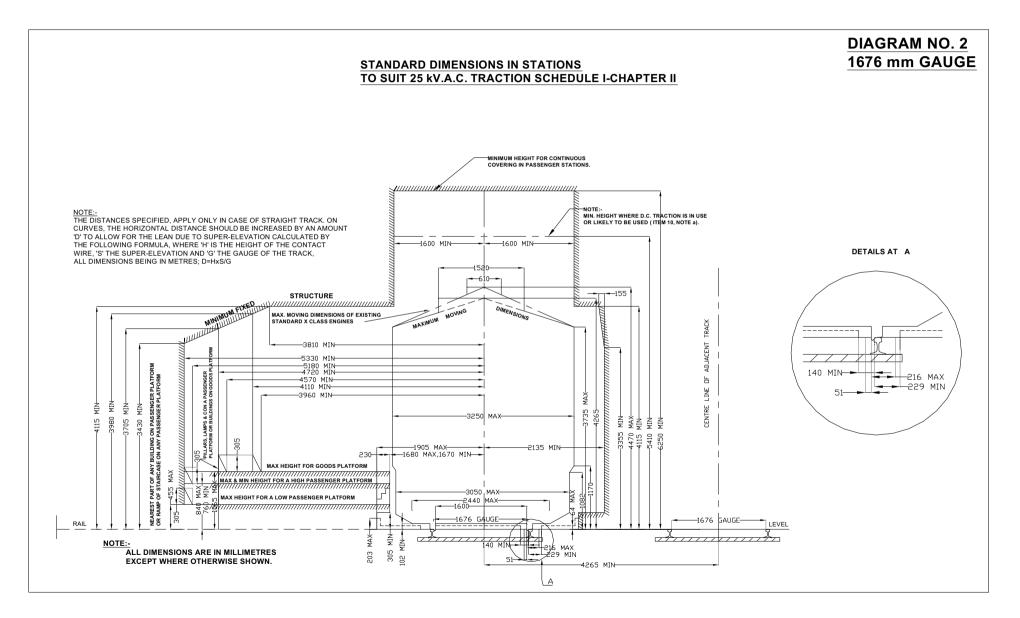


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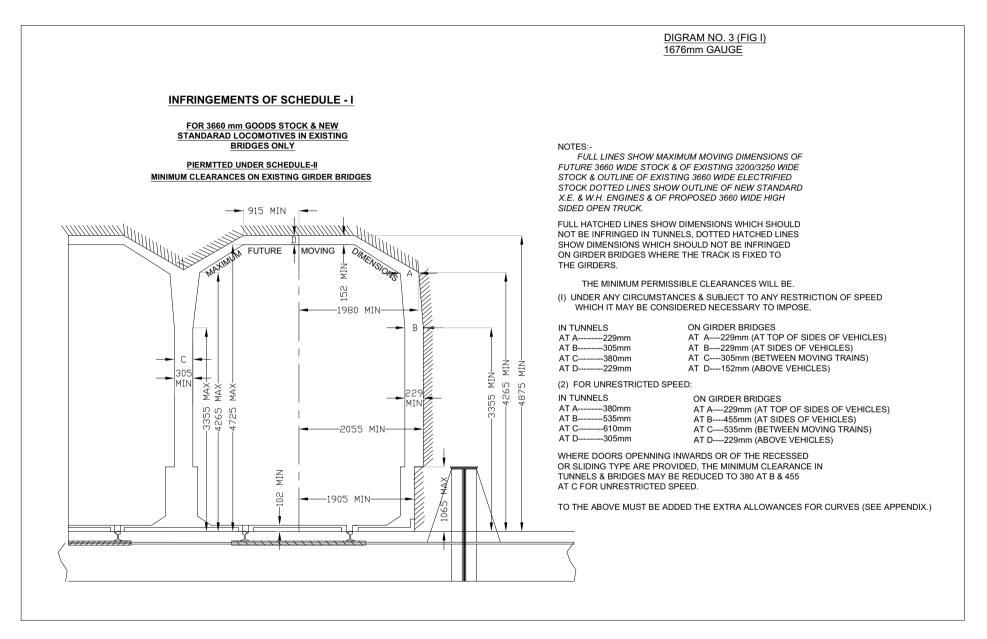


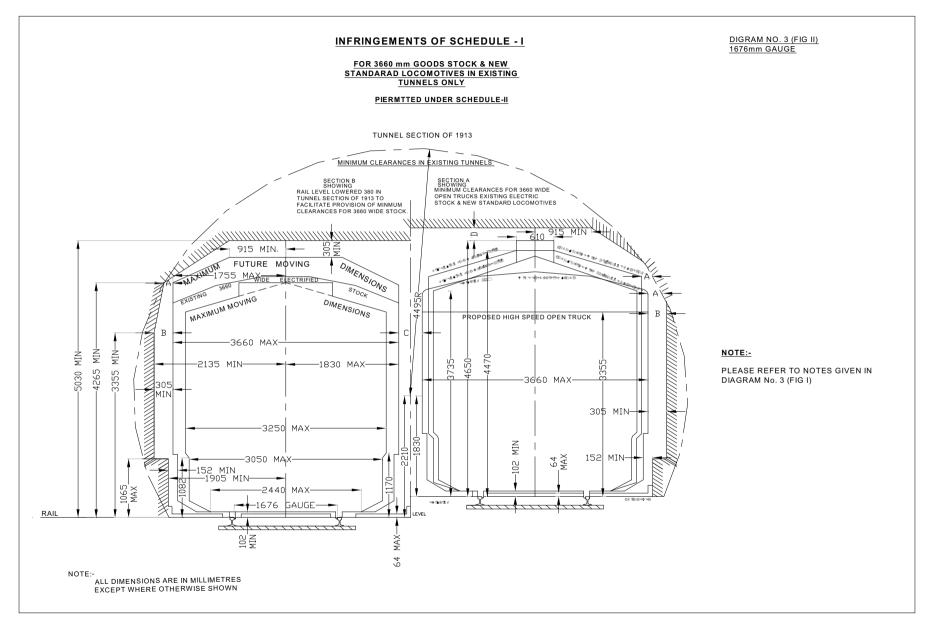






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