



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

1.	SHELL No:	<b>7017</b>	DISPATCH DATE:			<b>22.08.17</b>		
2.	RAILWAY	<b>ECR</b>	Type:	<b>WGACCN</b>	Coach No.:	<b>16104</b>		
3.	Booked to		<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach :		<b>52.53 T</b>					
5.	Carrying Capacity :		Seating:	<b>64</b>	Sleeping:	<b>64</b>	Luggage:	<b>NIL</b>
6.	Shell Details: (SG-90004 alt 'b')							
6.1	Leading Dimensions;							
i)	Maximum height above rail to top of Roof ventilator							
ii)	Maximum length over Body							
iii)	Maximum length over Buffer							
iv)	Maximum width over Body							
v)	Maximum width over Flasher light							
vi)	Minimum height above rail level to the lowest fitting							
vii)	CBC Height		Specified : 1104 +0 /-10 mm		<b>1102</b>	<b>1100</b>		
viii)	CBC (Make )		<b>SANROK</b>					
7.	Air Brake Testing:							
	Description			Specified				
7.1	Emergency Application		Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)			
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)			
7.2	Insensitivity		BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application			
7.3	Sensitivity		BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"			
7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"					
7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)					
8.	PAINTING DEATAILS:							
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT		<b>PU</b>	<b>GS</b>	<b>85/85</b>			
8.2	APPLICATION OF PCN-123							
8.3	INSUALTION							
9.	Traceability of Furnishing Items:				Make			
i.	BRAKE EQUIPMENT				<b>ESCORT</b>			
ii.	SEAT & BERTH				<b>RCF MADE</b>			
iii.	WATER TANKS				<b>RAIL FAB,AMIT</b>			
iv.	PVC				<b>RESPONSIVE</b>			
v.	FLOOR BOARD				<b>NARBADA</b>			
vi.	UIC VESTIBULE				<b>KRP</b>			
vii.	LAV. DOORS				<b>GANDHI</b>			
viii.	LP SHEET							
ix)	BIO- TOILET				<b>MRC</b>			
10	10.1	Modification/ Trial (if any):						
.	10.2	Deviations (if any):						



**रेल डिब्बा कारखाना**  
**RAIL COACH FACTORY, KAPURTHALA**

Bogie Pair ID: 173123159

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
				WGACCN		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	173123			173159	
ii.	Frame No.	ECBT-62			ECBT-74	
iii.	Axle No.	2403	1923	1573	H-0129	
iv.	Wheel Diameter	917.00	917.00	917.00	917.00	917.00
v.	Wheel Disc No.	19571-337	19585-311	18402-234	18314-327	18358-318
vi.	RB Nos	E1847	E2407	E1843	E1861	E1851
vii.	RB Make	NBC		NBC		NBC
viii.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	PEW-K13052,K13111			AJTECH-1767,1654	
ii.	Secondary shock Absorber Make & NO.	KNORR-19191,19197			KNORR-19047,19191	
11.4	i. Modification/Trail (if any):					
	ii. Deviations (if any):					



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Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

1.	SHELL No:	<b>7012</b>	DISPATCH DATE:			<b>31.08.17</b>		
2.	RAILWAY	<b>ECR</b>	Type:	<b>WGACCN</b>	Coach No.:	<b>16106</b>		
3.	Booked to		<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach :		<b>52.53 T</b>					
5.	Carrying Capacity :		Seating:	<b>64</b>	Sleeping:	<b>64</b>	Luggage:	<b>NIL</b>
6.	Shell Details: (SG-90004 alt 'b')							
6.1	Leading Dimensions;							
i)	Maximum height above rail to top of Roof ventilator							
ii)	Maximum length over Body							
iii)	Maximum length over Buffer							
iv)	Maximum width over Body							
v)	Maximum width over Flasher light							
vi)	Minimum height above rail level to the lowest fitting							
vii)	CBC Height		Specified : 1104 +0 /-10 mm		<b>1095</b>	<b>1104</b>		
viii)	CBC (Make )		<b>SANROK</b>					
7.	Air Brake Testing:							
	Description			Specified				
7.1	Emergency Application		Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)			
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)			
7.2	Insensitivity		BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application			
7.3	Sensitivity		BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"			
7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"					
7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)					
8.	PAINTING DEATAILS:							
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT		<b>PU</b>	<b>GS</b>	<b>85/85</b>			
8.2	APPLICATION OF PCN-123							
8.3	INSUALTION							
9.	Traceability of Furnishing Items:				Make			
i.	BRAKE EQUIPMENT				<b>ESCORT</b>			
ii.	SEAT & BERTH				<b>RCF MADE</b>			
iii.	WATER TANKS				<b>RAIL FAB,AMIT</b>			
iv.	PVC				<b>RESPONSIVE</b>			
v.	FLOOR BOARD				<b>NARBADA</b>			
vi.	UIC VESTIBULE				<b>KRP</b>			
vii.	LAV. DOORS				<b>GANDHI</b>			
viii.	LP SHEET				<b>PUNJAB LAMINATE</b>			
ix)	BIO- TOILET				<b>MRC</b>			
10	10.1	Modification/ Trial (if any):						
.	10.2	Deviations (if any):						



**रेल डिब्बा कारखाना**  
**RAIL COACH FACTORY, KAPURTHALA**

Bogie Pair ID: 173138154

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"								
11.2	Wheel & Axle Details:								
i.	Bogie No.	173138			173154				
ii.	Frame No.	CRG-157			CRG-156				
iii.	Axle No.	8790	S-8398		W-2925		511		
iv.	Wheel Diameter	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
v.	Wheel Disc No.	18416-338	18215-222	18316-316	18418-218	20036-344	19567-267	19592-380	19589-385
vi.	RB Nos	H0562	H0577	J1774	J1761	E1993	E1839	H0938	H0965
vii.	RB Make	NBC		NBC		NBC		NBC	
viii.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:								
i.	Break Cylinder Make & No.	AJTECH-1624,1775			PEW-K12080,K13085				
ii.	Secondary shock Absorber Make & NO.	GABRIEL-9243,9096			GABRIEL-9092,9256				
11.4	i.	Modification/Trail (if any):		NIL					
	ii.	Deviations (if any):		NIL					



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

1.	SHELL No:	<b>7015</b>	DISPATCH DATE:			<b>31.08.17</b>		
2.	RAILWAY	<b>ECR</b>	Type:	<b>WGACCN</b>	Coach No.:	<b>16105</b>		
3.	Booked to		<b>SSE/C&amp;W/RNCC</b>					
4.	Tare Weight of Coach :		<b>52.53 T</b>					
5.	Carrying Capacity :		Seating:	<b>64</b>	Sleeping:	<b>64</b>	Luggage:	<b>NIL</b>
6.	Shell Details: (SG-90004 alt 'b')							
6.1	Leading Dimensions;							
i)	Maximum height above rail to top of Roof ventilator							
ii)	Maximum length over Body							
iii)	Maximum length over Buffer							
iv)	Maximum width over Body							
v)	Maximum width over Flasher light							
vi)	Minimum height above rail level to the lowest fitting							
vii)	CBC Height		Specified : 1104 +0 /-10 mm		<b>1104</b>	<b>1104</b>		
viii)	CBC (Make )		<b>SANROK</b>					
7.	Air Brake Testing:							
	Description			Specified				
7.1	Emergency Application		Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)			
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)			
7.2	Insensitivity		BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application			
7.3	Sensitivity		BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"			
7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"					
7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)					
8.	PAINTING DEATAILS:							
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT		<b>PU</b>	<b>GS</b>	<b>85/85</b>			
8.2	APPLICATION OF PCN-123							
8.3	INSUALTION							
9.	Traceability of Furnishing Items:			Make				
i.	BRAKE EQUIPMENT			<b>ESCORT</b>				
ii.	SEAT & BERTH			<b>RCF MADE</b>				
iii.	WATER TANKS			<b>RAIL FAB,AMIT,shivalik</b>				
iv.	PVC			<b>RESPONSIVE</b>				
v.	FLOOR BOARD			<b>NARBADA</b>				
vi.	UIC VESTIBULE			<b>KRP</b>				
vii.	LAV. DOORS			<b>GANDHI</b>				
viii.	LP SHEET			<b>PUNJAB LAMINATE</b>				
ix)	BIO- TOILET			<b>MRC</b>				
10	10.1		Modification/ Trial (if any):					
.	10.2		Deviations (if any):					



**रेल डिब्बा कारखाना**  
**RAIL COACH FACTORY, KAPURTHALA**

Bogie Pair ID: 173157160

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	173157			173160	
ii.	Frame No.	CRG-167			CRG-168	
iii.	Axle No.	5950	V-6448	2706	M-8217	
iv.	Wheel Diameter	917.00	917.00	917.00	917.00	917.00
v.	Wheel Disc No.	18541-222	18391-242	20126-299	19839-392	18422-378
vi.	RB Nos	E2250	E2242	E2237	E2255	H0966
vii.	RB Make	NBC		NBC		NBC
viii.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	PEW-K12503,12963			PEW-K13005,K13094	
ii.	Secondary shock Absorber Make & NO.	GABRIEL-9215,8813			GABRIEL-8793,8737	
11.4	i. Modification/Trail(if any):					
	ii. Deviations (if any):					



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7012	DISPATCH DATE				03.08.2017
2.	Railway	ECR	Type	LWFAC	Coach No.	17004	
3.	Booked to		SSE/C&W/RNCC				
4.	Tare Weight of Coach		43.6 T				
5.	Carrying Capacity	Seating	24	Sleeping	24	Luggage NIL	
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1102	1104		
	v)	Buffer/CBC (Make )	SANROK	Fiba Device	NIL		
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	ii.	CDTS/ BIO TOILET	RAIL TECH ,RAIL FAB				
	iii.	SEATS/ BERTHS	AAR KAY FOAMS				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	KALSI				
	vi.	SALOON DOOR	KALSI				
	vii.	WATER TANKS	RAIL TECH, SHIVALIK				
	viii.	UIC VESTIBULE	ESCORTS				
	ix	FLOOR BOARD	NARBADA				
	x	PVC FLOORING	RESPONSIVE				
10.							
	i	Modification / Trail (if any):				NIL	
	ii	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	<b>Bogie Details:</b>		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			77012	ECR	LWFAC	17004	10-01-2017			
11.1	<b>Wheel &amp; Axle Details:</b>		PP Side				NPP Side			
	i.	Bogie No.	176001				176002			
	ii.	Frame No.	SCI/FM-658				SCI/FM-733			
	iii.	Bolster No.	6518-GT				6465-P			
	iv.	Axle No.	N-0881		P-9268		N-6372		N-6234	
	v.	Wheel Dia.	916.00	916.00	916.00	916.50	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	00022-6107	00052-6106	00131-6067	00135-6067	00067-6110	00119-6110	00193-7301	00051-6048
	vii.	R.B. Nos.	61970	61769	61669	97577	94633	86101	94634	80533
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	<b>Secondary suspension load deflection Values:</b>									
<b>Description</b>		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	FSK-16-5-26	GBD-16-5-277	FSK-16-5-07	GBD-16-5-309	FSK-16-5-02	GBD-16-5-280	FSK-16-5-27	GBD-16-5-289	
ii.	Ht. at test load	511.50	468	509.50	468	509	466	508	468	
iii.	Align .deviation	7	7	10	10	7	6	10	7	
11.3	<b>Items traceability:</b>									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			GBD-16-11		GBD-16-11		GBD	
	ii.	Primary inner Spring			G-12-6		L&S-13-2		GF, L&S	
	iii.	Primary Damper			396,508,373,395		418,422,397,519		GABRIEL	
	iv.	Secondary damper			0336,0291		0367,0341		SV	
	v.	Lateral Damper			0148		0251		SV	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper							-----	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							GMT	
	xi.	Traction center make							SARITA	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							SGA	
	xiv.	Traction centre elastic							SGA	
	xv.	Secondary rubber pad							TECSPAK	
	xvi.	Rubber spring							GMT	
	xvii.	Anti roll bar make							SARITA	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							EMSON	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWFAC-7012