



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5028	DISPATCH DATE:			07.11.2015
2.	Rly:	NR	Type:	MEMU/TC2	Coach No.:	31339
3.	Booked to	SSE/C&W/GZB				
4.	Tare Weight of Coach :	33.15 T				
5.	Carrying Capacity :	Seating:	80	Standing	272	Luggage: NIL
6.	Shell Details: (SG-90004 alt 'b')					
6.1	Leading Dimensions;					
i)	Maximum height above rail to top of Roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)		
ii)	Maximum length over Body			21337 ± 10		
iii)	Maximum length over Buffer			22297 ± 15		
iv)	Maximum width over Body			3245 ± 5		
v)	Maximum width over Flasher light			3402 +0/-5		
vi)	Minimum height above rail level to the lowest fitting			181.5 mm (AE63143)		
vii)	Buffer/CBC Height		Specified : 1104 +0 /-10 mm		NA	NA
vii)	Make :		WSF			
ix)	Shaku Coupler Height		Specified : 1035 +0 /-5 mm		1035/1035	
x)	Shaku Coupler Make:		WSF			
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		PU PAINT	GS	85/85	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			ESCORTS		
ii.	SEAT & BERTH			OVPL		
iii.	PVC			RESPONSIVE		
Iv.	FLOOR BOARD			TAYAL		
V.	UIC VESTIBULE			CEMCON		
Vi.	LP SHEETS			PUNJAB LAMINATE		

	Vii	BODY SIDE WINDOW	GI
	Viii	EMERGENCY WINDOW	GI
	Xi	DOOR WINDOW	GI
	X	WATER TANK	RAIL FAB
	Xi	LAV WINDOW	AGF
	xii	LAV DOOR	GANDHI
10.	10.1	Modification/ Trial (if any):	NIL
	10.2	Deviations (if any):	NIL



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		5028	NR	MEMU/TC	31339	31-10-2015				
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'									
11.2	Wheel & Axle Details:	PP Side				NPP Side				
	i.	Bogie No.	155054				155047			
	ii.	Frame No.	ASR-204				ASR-193			
	iii.	Axle No.	A-4717		A-5490		V-9218		U-4281	
	iv.	Wheel Diameter	955.00	955.00	955.00	955.00	953.00	953.00	953.00	953.00
	v.	Wheel Disc No.	10260/954	10668/940	10260/954	07237/947	95260/942	07324/936	05688/943	07328/946
	vi.	R.B. Nos.	H1378	H0984	H1362	H1352	V-1582	V2110	W2350	V0808
	vii.	R.B. Make	NBC		NBC		FAG		FAG	
	viii.	R.B. Type	Direct Mounted Spherical Roller Bearing							
11.3	<u>Items Traceability:</u>				PP SIDE		NPP SIDE			

	i.	BRAKE CYLINDER Make & NO.	ESCORTS-9062,9065	PEW-1463,1481
	ii.	SECONDARY Shock Absorber Make &NO.	ESCORTS-8803,8807	ESCORTS-219,148
11.4	i.	Modification/ Trail (if any):	NIL	
	ii.	Deviations (if any):	NIL	

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ROLLING STOCK CERTIFICATE

Form No. : **QMF4254; Version: 05**

1.	SHELL No:	5025	DISPATCH DATE:			02.11.2015
2.	Rly:	NR	Type:	MEMU/TC2	Coach No.:	31337
3.	Booked to	SSE/C&W/GZB				
4.	Tare Weight of Coach :	33.15 T				
5.	Carrying Capacity :	Seating:	80	Standing	272	Luggage: NIL
6.	Shell Details: (SG-90004 alt 'b')					
	6.1	Leading Dimensions;				
	i)	Maximum height above rail to top of Roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body			21337 ± 10	
	iii)	Maximum length over Buffer			22297 ± 15	
	iv)	Maximum width over Body			3245 ± 5	
	v)	Maximum width over Flasher light			3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting			181.5 mm (AE63143)	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		NA	NA
	vii)	Make :	ESCORTS			
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035/1035	
	x)	Shaku Coupler Make:	WSF, ESCORTS			
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	PU PAINT	GS	85/85	
	8.2	APPLICATION OF PCN-123			SATISFACTORY	
	8.3	INSUALTION			SATISFACTORY	
9.	Traceability of Furnishing Items:			Make		

	i.	BRAKE EQUIPMENT	ESCORTS
	ii.	SEAT & BERTH	OVPL
	iii	PVC	RESPONSIVE
	iv	FLOOR BOARD	TAYAL
	V	UIC VESTIBULE	CEMCON
	Vi	LP SHEETS	NK
	Vii	BODY SIDE WINDOW	GI
	Viii	EMERGENCY WINDOW	GI
	Xi	DOOR WINDOW	GI
	X	WATER TANK	RAIL FAB
	Xi	LAV WINDOW	NA
	xii	LAV DOOR	GANDHI
	XIII	BIO TOILET	ORIENTAL
10.	10.1	Modification/ Trial (if any):	NIL
	10.2	Deviations (if any):	NIL



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		5025	NR	MEMU/TC	31337	23-10-2015			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'								
11.2	Wheel & Axle Details:	PP Side			NPP Side				
	i.	Bogie No.	155052			155053			
	ii.	Frame No.	ASR-198			ASR-201			
	iii.	Axle No.	A-5390		A-5206		RWF-98150		W-2993
	iv.	Wheel Diameter	954.00	954.00	955.00	955.00	953.00	953.00	953.00
v.	Wheel Disc No.	10739/943	05824/958	09057/928	09141/941	10585/938	10650/957	08994/944	07252/948

	vi.	R.B. Nos.	V1395	V1443	V1430	V1419	H1394	H1351	V1307	V0752
	vii.	R.B. Make	FAG		FAG		NBC		FAG	
	viii.	R.B. Type	Direct Mounted Spherical Roller Bearing							
11.3	<u>Items Traceability:</u>					PP SIDE		NPP SIDE		
	i.	BRAKE CYLINDER Make & NO.			PEW-5136,5138		PEW-5143,5105			
	ii.	SECONDARY Shock Absorber Make &NO.			ESCORTS-4711,4823		ESCORTS-4487,7028			
11.4	i.	Modification/ Trail (if any):			NIL					
	ii.	Deviations (if any):			NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5024	DISPATCH DATE:				05.11.2015
2.	Rly:	NR	Type:	MEMU/TC2	Coach No.:	31338	
3.	Booked to	SSE/C&W/GZB					
4.	Tare Weight of Coach :	33.15 T					
5.	Carrying Capacity :	Seating:	80	Standing	272	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)		
	ii)	Maximum length over Body			21337 ± 10		
	iii)	Maximum length over Buffer			22297 ± 15		
	iv)	Maximum width over Body			3245 ± 5		
	v)	Maximum width over Flasher light			3402 +0/-5		
	vi)	Minimum height above rail level to the lowest fitting			181.5 mm (AE63143)		
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		NA	NA	
	vii)	Make :	ESCORTS, WSF				
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035/1035		
	x)	Shaku Coupler Make:	WSF, ESCORTS				
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
	8.1	PAINT	PU PAINT	GS
	8.2	APPLICATION OF PCN-123		SATISFACTORY
	8.3	INSUALTION		SATISFACTORY
9.	Traceability of Furnishing Items:			Make
	i.	BRAKE EQUIPMENT		ESCORTS
	ii.	SEAT & BERTH		OVPL
	iii.	PVC		RESPONSIVE
	iv.	FLOOR BOARD		TAYAL
	v.	UIC VESTIBULE		CEMCON
	vi.	LP SHEETS		NA
	vii.	BODY SIDE WINDOW		GI
	viii.	EMERGENCY WINDOW		GI
	xi.	DOOR WINDOW		GI
	x.	WATER TANK		RAIL FAB
	xi.	LAV WINDOW		AGF
	xii.	LAV DOOR		GANDHI
	xiii.	BIO TOILET		NA
10.	10.1	Modification/ Trial (if any):		NIL
	10.2	Deviations (if any):		NIL



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		5024	NR	MEMU/TC	31338	23-10-2015
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC0002 Alt 'a'					
11.2	Wheel & Axle Details:	PP Side			NPP Side	

	i.	Bogie No.	155044				155045			
	ii.	Frame No.	ASR-189				ASR-192			
	iii.	Axle No.	Y-6831		P-9884		A5246		A-3770	
	iv.	Wheel Diameter	953.00	953.00	954.00	954.00	953.00	953.00	953.00	953.00
	v.	Wheel Disc No.	07726/ 958	10324/ 946	07771/ 942	10656/ 945	10657/ 948	02112/ 932	07548/ 946	07096/94 4
	vi.	R.B. Nos.	V2109	V1514	W1176	W1150	V0792	V0795	V2100	V0793
	vii.	R.B. Make	FAG		FAG		FAG		FAG	
	viii.	R.B. Type	Direct Mounted Spherical Roller Bearing							
11.3	<u>Items Traceability:</u>					PP SIDE		NPP SIDE		
	i.	BRAKE CYLINDER Make & NO.				PEW-1455,1451		PEW-1500,1465		
	ii.	SECONDARY Shock Absorber Make &NO.				ESCORTS-0225,325		ESCORTS-0312,0459		
11.4	i.	Modification/ Trail (if any):					NIL			
	ii.	Deviations (if any):					NIL			

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ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5022	DISPATCH DATE:				05.11.2015
2.	Rly:	NR	Type:	MEMU/TC2	Coach No.:	31334	
3.	Booked to	SSE/C&W/GZB					
4.	Tare Weight of Coach :	33.15 T					
5.	Carrying Capacity :	Seating:	80	Standing	272	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	

	ii)	Maximum length over Body	21337 ± 10
	iii)	Maximum length over Buffer	22297 ± 15
	iv)	Maximum width over Body	3245 ± 5
	v)	Maximum width over Flasher light	3402 +0/-5
	vi)	Minimum height above rail level to the lowest fitting	181.5 mm (AE63143)
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm
	vii)	Make :	ATUL
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm
	x)	Shaku Coupler Make:	EMSON, ESCORTS
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
	8.1	PAINT	PU PAINT
	8.2	APPLICATION OF PCN-123	GS
	8.3	INSUALTION	AVERAGE GLOSS VALUE
			85/85
			SATISFACTORY
			SATISFACTORY
9.	Traceability of Furnishing Items:		Make
	i.	BRAKE EQUIPMENT	ESCORTS
	ii.	SEAT & BERTH	OVPL
	iii.	PVC	RESPONSIVE
	iv.	FLOOR BOARD	TAYAL
	v.	UIC VESTIBULE	CEMCON
	vi.	LP SHEETS	NK
	vii.	BODY SIDE WINDOW	ABC
	viii.	EMERGENCY WINDOW	ABC
	xi.	DOOR WINDOW	GI
	x.	WATER TANK	RAIL FAB
	xi.	LAV WINDOW	AGF
	xii.	LAV DOOR	RCF
	xiii.	BIO TOILET	NA
10.	10.1	Modification/ Trial (if any):	NIL
	10.2	Deviations (if any):	NIL



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		5022	NR	MEMU/TC	31334	26-10-2015				
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'									
11.2	Wheel & Axle Details:	PP Side				NPP Side				
	i.	Bogie No.	155042				155041			
	ii.	Frame No.	ASR-190				ASR-135			
	iii.	Axle No.	P-5683		A-4421		A-4771		S-1691	
	iv.	Wheel Diameter	953.50	953.50	953.00	953.00	954.00	954.00	953.00	953.00
	v.	Wheel Disc No.	10452/ 937	08845/ 941	07305/ 937	07261/ 938	10624/ 926	06960/ 936	10709/ 960	10601/94 1
	vi.	R.B. Nos.	X0387	X0397	A1278	A1072	W0728	W0736	X0425	X2078
	vii.	R.B. Make	FAG		NBC		FAG		FAG	
	viii.	R.B. Type	Direct Mounted Spherical Roller Bearing							
11.3	<u>Items Traceability:</u>				PP SIDE		NPP SIDE			
	i.	BRAKE CYLINDER Make & NO.				PEW-E13688,13689		PEW-E13685,E13682		
	ii.	SECONDARY Shock Absorber Make &NO.				ESCORTS-336,562		IAI-128534,128522		
11.4	i.	Modification/ Trail (if any):				NIL				
	ii.	Deviations (if any):				NIL				

MEMU/TC2—5022



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ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5023	DISPATCH DATE:				05.11.2015
2.	Rly:	NR	Type:	MEMU/TC2	Coach No.:	31336	
3.	Booked to	SSE/C&W/GZB					
4.	Tare Weight of Coach :	33.15 T					
5.	Carrying Capacity :	Seating:	80	Standing	272	Luggage: NIL	
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)		
	ii)	Maximum length over Body			21337 ± 10		
	iii)	Maximum length over Buffer			22297 ± 15		
	iv)	Maximum width over Body			3245 ± 5		
	v)	Maximum width over Flasher light			3402 +0/-5		
	vi)	Minimum height above rail level to the lowest fitting			181.5 mm (AE63143)		
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		NA	NA	
	vii)	Make :			SANROK		
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035/1035		
	x)	Shaku Coupler Make:			SANROK		
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	PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123			SATISFACTORY		
	8.3	INSUALTION			SATISFACTORY		
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			ESCORTS		
	ii.	SEAT & BERTH			OVPL		
	lii	PVC			RESPONSIVE		
	Iv	FLOOR BOARD			TAYAL		
	V	UIC VESTIBULE			CEMCON		
	Vi	LP SHEETS			NA		
	Vii	BODY SIDE WINDOW			GI		
	Viii	EMERGENCY WINDOW			GI		
	Xi	DOOR WINDOW			GI		
	X	WATER TANK			RAIL FAB		
	Xi	LAV WINDOW			AJF		
	xii	LAV DOOR			TWPL		
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



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12.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date					
		5023	NR	MEMU/TC	31336	17-08-2015					
12.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'										
12.2	Wheel & Axle Details:	PP Side					NPP Side				
	i.	Bogie No.	155043					155046			
	ii.	Frame No.	ASR-187					ASR-191			
	iii.	Axle No.	V-1267		A-4070		A-4642		A-4042		
	iv.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00	953.00	953.00	953.00	
	v.	Wheel Disc No.	09066/ 944	10716/ 957	05688/ 957	07699/ 941	08901/ 924	08907/ 938	06959/ 937	06945/93 7	
	vi.	R.B. Nos.	V-1433	V-1538	V-2124	V-1529	V-2116	V-2107	V-1521	V-1579	
	vii.	R.B. Make	FAG		FAG		FAG		FAG		
	viii	R.B. Type	Direct Mounted Spherical Roller Bearing								
12.3	<u>Items Traceability:</u>				PP SIDE			NPP SIDE			
	i.	BRAKE CYLINDER Make & NO.				NIL			PEW-3055,1468		
	ii.	SECONDARY Shock Absorber Make &NO.				ESCORTS-0386,0175			ESCORTS-0247,0391		
12.4	i.	Modification/ Trail (if any):				NIL					
	ii.	Deviations (if any):				NIL					

MEMU/TC2—5023

