



ROLLING STOCK CERTIFICATE

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

1.	SHELL No:	5015	DISPATCH DATE:			01.09.2015
2.	Rly:	WR	Type:	MEMU/TC2	Coach No.:	21112
3.	Booked to	SSE/C&W/BRLY				
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:	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	85/86	
	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	
	lv	FLOOR BOARD			TAYAL	
	v	UIC VESTIBULE			KRP	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			ABC	
	Viii	EMERGENCY WINDOW			ABC	
	Xi	DOOR WINDOW			GI/IR	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDON	
	xii	LAV DOOR			GANDHI	
10.	10.1	Modification/ Trial (if any):			NIL	
	10.2	Deviations (if any):			NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		5015	WR	MEMU/TC	21112	18-06-2015			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'								
11.2	Wheel & Axle Details:	PP Side				NPP Side			
	i. Bogie No.	155029				155030			
	ii. Frame No.	ASR-170				ASR-176			
	iii. Axle No.	A-5475		A-5769		P-9982		S-1722	
	iv. Wheel Diameter	953.00	953.00	953.00	953.00	953.00	953.00	953.00	953.00
	v. Wheel Disc No.	95307/957	10676/942	08166/945	06297/956	08829/977	10475/939	06585/944	10626/945
	vi. R.B. Nos.	W1362	W1296	W0686	W1367	W1265	W1200	W1283	W1208
	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-9482,12264			ESCORTS-12281,9034	
	ii.	SECONDARY Shock Absorber Make &NO.			K/B-6632,6584			K/B-06655,06663	
11.4	i.	Modification/ Trail (if any):			NIL				
	ii.	Deviations (if any):			NIL				

MEMU/TC2—5015



ROLLING STOCK CERTIFICATE

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

1.	SHELL No:	5014	DISPATCH DATE:			03.09.2015
2.	Rly:	WR	Type:	MEMU/TC2	Coach No.:	21108
3.	Booked to	SSE/C&W/BRLY				
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:	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	86/85	
	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	
	lii	PVC			RESPONSIVE	
	lv	FLOOR BOARD			TAYAL	
	v	UIC VESTIBULE			CEMCON	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			IR	
	Viii	EMERGENCY WINDOW			IR	
	Xi	DOOR WINDOW			MECIDONE	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDONE	
	xii	LAV DOOR			AMIR CHAND	
10.	10.1	Modification/ Trial (if any):			NIL	
	10.2	Deviations (if any):			NIL	

रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	12.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5014	WR	MEMU/TC	21108	01-07-2015			
11.1	12.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'								
11.2	12.2	Wheel & Axle Details:	PP Side			NPP Side				
		i. Bogie No.	155037			155038				
		ii. Frame No.	ASR-178			ASR-185				
		iii. Axle No.	6424	A-4470		RWF-103772		U-7929		
		iv. Wheel Diameter	953.00	953.00	953.00	953.00	955.00	955.00	955.00	
		v. Wheel Disc No.	02251/ 939	03752/ 941	08891/ 941	10706/ 948	09013/ 946	09124/ 945	08999/ 946	08986/94 2
		vi. R.B. Nos.	O-623	P-1589	C3008	C3303	M3119	M3123	M3116	M3092
		vii. R.B. Make	FAG		FAG		FAG		FAG	
		viii. R.B. Type	Direct Mounted Spherical Roller Bearing							
11.3	12.3	<u>Items Traceability:</u>				PP SIDE		NPP SIDE		
		i.	BRAKE CYLINDER Make & NO.			PEW-NIL		PEW-9061,9042		
		ii.	SECONDARY Shock Absorber Make &NO.			K/B-02963,02952		K/B-06737,06441		
11.4	12.4	i.	Modification/ Trail (if any):			NIL				
		ii.	Deviations (if any):			NIL				

MEMU/TC2—5014



ROLLING STOCK CERTIFICATE

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

1.	SHELL No:	5016	DISPATCH DATE:			02.09.2015
2.	Rly:	WR	Type:	MEMU/TC2	Coach No.:	21111
3.	Booked to	SSE/C&W/BRLY				
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:	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	85/86	
	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			KRP	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			ABC	
	Viii	EMERGENCY WINDOW			ABC	
	Xi	DOOR WINDOW			GI/IR	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDON	
	xii	LAV DOOR			SAVITRI	
10.	10.1	Modification/ Trial (if any):			NIL	
	10.2	Deviations (if any):			NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		5016	WR	MEMU/TC	21111	19-06-2015				
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'									
11.2	Wheel & Axle Details:	PP Side				NPP Side				
	i. Bogie No.	155031				155032				
	ii. Frame No.	ASR-177				ASR-180				
	iii. Axle No.	A-5157		A-5368		107073/086		A-5156		
	iv. Wheel Diameter	953.00	953.00	953.50	953.00	954.00	954.00	953.00	953.00	
	v. Wheel Disc No.	07057/ 944	10784/ 942	10204/ 941	10357/ 948	10302/ 958	08983/ 946	10598/ 940	10741/94 6	
	vi. R.B. Nos.	X2072	W1547	X0414	W1545	W1525	W1550	W1129	W1185	
	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.				AJT-12277,9428		PEW-12289,12292		
	ii.	SECONDARY Shock Absorber Make &NO.				K/B-06646,06591		K/B-00466,06586		
11.4	i.	Modification/ Trail (if any):				NIL				
	ii.	Deviations (if any):				NIL				

MEMU/TC2—5016