



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5013	DISPATCH DATE:			05.09.2015
2.	Rly:	ER	Type:	MEMU/TC2	Coach No.:	26116
3.	Booked to	SSE/C&W/ASN				
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			NA	
	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	86/87	
	8.2	APPLICATION OF PCN-123			SATISFACTORY	
	8.3	INSUALTION			SATISFACTORY	
9.	Traceability of Furnishing Items:					Make
	i.	BRAKE EQUIPMENT			KBI	
	ii.	SEAT & BERTH			OVPL	
	lii	PVC			RESPONSIVE	
	lv	FLOOR BOARD			TAYAL	
	v	UIC VESTIBULE			CEMCON	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			GI	
	Viii	EMERGENCY WINDOW			GI	
	Xi	DOOR WINDOW			MECIDONE	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDON	
	xii	LAV DOOR			AMIR CHAND	
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				
		5013	ER	MEMU/TC	26116	23-05-2015				
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'									
11.2	Wheel & Axle Details:	PP Side				NPP Side				
	i. Bogie No.	155021				155022				
	ii. Frame No.	ASR-167				ASR-168				
	iii. Axle No.	A-4477		A-4132		A-4014		A-3684		
	iv. Wheel Diameter	952.50	952.00	953.00	953.00	953.50	953.00	953.00	953.00	
	v. Wheel Disc No.	09002/945	09142/936	10353/948	10434/926	09068/947	10310/910	07066/929	10658/945	
	vi. R.B. Nos.	C-3227	C-3191	C-2962	C-2919	C-3213	C-3211	C-2952	C-2940	
	vii. R.B. Make	NBC		NBC		NBC		NBC		
	viii. R.B. Type	Direct Mounted Spherical Roller Bearing								
11.3	<u>Items Traceability:</u>				PP SIDE		NPP SIDE			
	i.	BRAKE CYLINDER (Make)			9041,9046 ESCORTS		9006,9018 ESCORTS			
	ii.	SECONDARY Shock Absorber (Make)			10928,10929 GAB		10935,10930 GAB			
11.4	i.	Modification/ Trail (if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMU/TC2—5013



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Form No. : QMF4254; Version: 05

1.	SHELL No:	5012	DISPATCH DATE:			05.09.2015
2.	Rly:	ER	Type:	MEMU/TC2	Coach No.:	26117
3.	Booked to	SSE/C&W/ASN				
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			NA	
	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			CEMCON	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			GI	
	Viii	EMERGENCY WINDOW			GI	
	Xi	DOOR WINDOW			MECIDONE	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDON	
	xii	LAV DOOR			AMIR CHAND	
10.	10.1	Modification/ Trial (if any):			NIL	
	10.2	Deviations (if any):			NIL	



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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5012		ER		MEMU/TC		26117		20-06-2015	
11.1	12.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'										
11.2	12.2	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>					<b>NPP Side</b>				
		i. Bogie No.	155033					155034				
		ii. Frame No.	ASR-179					ASR-181				
		iii. Axle No.	P-5839		P-3457		A-5869		A-4821			
		iv. Wheel Diameter	953.00	953.00	954.00	954.00	954.00	954.00	954.00	954.00		
		v. Wheel Disc No.	08917/ 927	09006/ 929	10170/ 945	08813/ 958	10347/ 948	08781/ 942	06447/ 941	08957/ 937		
		vi. R.B. Nos.	C2999	C2915	X1174	X1187	W1642	W1562	W1581	W1555		
		vii. R.B. Make	FAG		FAG		FAG		FAG			
		viii. R.B. Type	Direct Mounted Spherical Roller Bearing									
11.3	12.3	<b>Items Traceability:</b>					<b>PP SIDE</b>		<b>NPP SIDE</b>			
		i. BRAKE CYLINDER Make & NO.						PEW-E12155,E12138		PEW-E12288,E12274		
		ii. SECONDARY Shock Absorber Make &NO.						K/B-06577,6471		K/B-06690,06611		
11.4	12.4	i. Modification/ Trail (if any):						NIL				
		ii. Deviations (if any):						NIL				

MEMU/TC2—5012



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Form No. : QMF4254; Version: 05

1.	SHELL No:	5011	DISPATCH DATE:			05.09.2015
2.	Rly:	ER	Type:	MEMU/TC2	Coach No.:	26114
3.	Booked to	SSE/C&W/ASN				
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			NA	
	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	85/85	
	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			KRP	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			ABC	
	Viii	EMERGENCY WINDOW			ABC	
	Xi	DOOR WINDOW			MECIDONE	
	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	



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date				
		5011	ER	MEMU/TC	26114	24-06-2015				
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'									
11.2	Wheel & Axle Details:	PP Side				NPP Side				
	i. Bogie No.	155035				155036				
	ii. Frame No.	ASR-183				ASR-184				
	iii. Axle No.	W-2330		A-3631		P-3382		P-6129		
	iv. Wheel Diameter	953.00	953.00	953.00	953.00	953.50	953.00	955.00	955.00	
	v. Wheel Disc No.	10693/948	10439/928	10702/957	10366/960	10419/960	10470/960	09032/936	08793/942	
	vi. R.B. Nos.	C2960	C2929	C2946	C2956	C3032	C3036	L2994	L2973	
	vii. R.B. Make	NBC		NBC		NBC		NBC		
	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-E12121,E12150			PEW-E12145,E12120		
	ii.	SECONDARY Shock Absorber Make &NO.			K/B-06461,06576			K/B-06509,06578		
11.4	i.	Modification/ Trail (if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMU/TC2—5011



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5018	DISPATCH DATE:			07.09.2015
2.	Rly:	ER	Type:	MEMU/TC2	Coach No.:	26115
3.	Booked to	SSE/C&W/ASN				
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				NA	
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			CEMCON		
Vi	LP SHEETS			NA		
Vii	BODY SIDE WINDOW			GI		
Viii	EMERGENCY WINDOW			GI		
Xi	DOOR WINDOW			MECIDONE		
X	WATER TANK			RAIL FAB		
Xi	LAV WINDOW			MECIDON		
xii	LAV DOOR			AMIR CHAND		
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		
		5018	ER		MEMU/TC		26115		11-06-2015		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'										
11.2	Wheel & Axle Details:	PP Side				NPP Side					
	i. Bogie No.	155027				155028					
	ii. Frame No.	ASR-175				ASR-174					
	iii. Axle No.	S-1796		W-2449		P-9922		S-1626			
	iv. Wheel Diameter	955.00	955.00	955.00	955.00	953.00	953.00	953.50	953.00		
	v. Wheel Disc No.	08871/942	09054/937	08999/939	09010/938	10304/941	06464/960	10697/960	07261/943		
	vi. R.B. Nos.	C-3140	C-3194	C-3148	C-3147	W1195	W1226	W1128	W1192		
	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.				ESCORTS-1244,7289			ESCORTS-3533,1612		
	ii.	SECONDARY Shock Absorber Make &NO.				K/B-00469,06347			K/B-06536,06747		
11.4	i.	Modification/ Trail (if any):				NIL					
	ii.	Deviations (if any):				NIL					

MEMU/TC2—5018





ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	5017	DISPATCH DATE:			07.09.2015
2.	Rly:	ER	Type:	MEMU/TC2	Coach No.:	26118
3.	Booked to	SSE/C&W/ASN				
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			NA	
	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	86/87	
	8.2	APPLICATION OF PCN-123			SATISFACTORY	
	8.3	INSUALTION			SATISFACTORY	
9.	Traceability of Furnishing Items:					Make
	i.	BRAKE EQUIPMENT			KBI	
	ii.	SEAT & BERTH			OVPL	
	lii	PVC			RESPONSIVE	
	lv	FLOOR BOARD			TAYAL	
	v	UIC VESTIBULE			CEMCON	
	Vi	LP SHEETS			NA	
	Vii	BODY SIDE WINDOW			GI	
	Viii	EMERGENCY WINDOW			GI	
	Xi	DOOR WINDOW			MECIDONE	
	X	WATER TANK			RAIL FAB	
	Xi	LAV WINDOW			MECIDON	
	xii	LAV DOOR			AMIR CHAND	
10.	10.1	Modification/ Trial (if any):			NIL	
	10.2	Deviations (if any):			NIL	



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11.	<b>Bogie Details:</b>	<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
		5017		ER		MEMU/TC		26118		02-06-2015	
11.1	<b>BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'</b>										
11.2	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>					<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	155025					155026			
	ii.	<b>Frame No.</b>	ASR-169					ASR-173			
	iii.	<b>Axle No.</b>	RWF-104239		A-5162		A-4146		P-9847		
	iv.	<b>Wheel Diameter</b>	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	v.	<b>Wheel Disc No.</b>	10621/928	08923/927	05721/945	10608/957	07190/957	10323/937	10291/947	10684/947	
	vi.	<b>R.B. Nos.</b>	X1958	X1952	X1973	X1974	X1953	X1968	X1999	X1892	
	vii.	<b>R.B. Make</b>	FAG		FAG		FAG		FAG		
	viii.	<b>R.B. Type</b>	Direct Mounted Spherical Roller Bearing								
11.3	<b>Items Traceability:</b>					<b>PP SIDE</b>			<b>NPP SIDE</b>		
	i.	<b>BRAKE CYLINDER Make &amp; NO.</b>				AJT-7284,7199			PEW –E 9454,E9470		
	ii.	<b>SECONDARY Shock Absorber Make &amp;NO.</b>				K/B -00512,00195			K/B-00532,00115		
11.4	i.	<b>Modification/ Trail (if any):</b>					NIL				
	ii.	<b>Deviations (if any):</b>					NIL				

MEMU/TC2—5017