



भारतीय रेलवे कारखाना  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8130	BOGIE NO	184511 / 184512		DISPATCH DATE	29-AUG-18
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188033	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1034	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	85 / 86	
	8.2	Application of PCN-123		SATISFACTORY			
	8.3	Insulation		SATISFACTORY			
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			TWPL, TWPL		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे प्राधिकरण  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8130	CR	MEMUTC AS	188033	29-AUG-18
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	184511			184512	
ii.	Frame No.	KE-21			ECBT-476	
iii.	Bolster No.	-			-	
iv.	Axle No.	3129	4450	4017	5212	
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00
vi.	Wheel Disc No.	26745-933-RWF	26674-947-RWF	22084-951-RWF	22206-923-RWF	26732-957-RWF
vii.	RB Nos	Y2505	V0130	V0019	V0578	V0171
viii.	RB Make	FAG	FAG	FAG	FAG	FAG
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	AJTECH-0250,0211			AJTECH-0258,0263	
ii.	Secondary shock Absorber Make & NO.	IAI-198060,198067			IAI-185384,185403	
iii.	Lateral Shock Absorber Make & NO.	GABRIEL-878,711			GABRIEL-623,939	
iv.	Air Spring Make & NO.	SI-1569,1564			SI-1765,1732	
11.4	i.	Modification/Trail(if any):	NIL			
	ii.	Deviations (if any):	NIL			

MEMUTC AS - 8130



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8130	COACH_NO :	188033
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	24-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
1	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
2	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
3	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
4	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
5	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1231
6	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-06-1223
<b>Group Name NON-DRIVING END</b>				
7	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1227
<b>Group Name UNDER FRAME</b>				
8	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
9	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
10	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
11	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
12	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188033
RAILWAY CR		DATE OF FITMENT: 24-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name COMPARTMENT			
13	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON NIL
SSE/EL/QC		AME/WM QC/DY CQM I	



भारतीय रेलवे कार्गो कार्ड

**RAIL COACH FACTORY, KAPURTHALA**

**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8133	BOGIE NO	184507 / 184508	DISPATCH DATE	29-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188032	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1034	1033	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



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**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		<b>8133</b>	<b>CR</b>	<b>MEMUTC AS</b>	<b>188032</b>	<b>29-AUG-18</b>
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	<b>184507</b>			<b>184508</b>	
ii.	Frame No.	<b>ECBT-473</b>			<b>ECBT-477</b>	
iii.	Bolster No.	-			-	
iv.	Axle No.	<b>F - 2311</b>	<b>5595</b>		<b>5219</b>	<b>3414</b>
v.	Wheel Diameter	<b>955.00</b>	<b>955.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>
vi.	Wheel Disc No.	<b>22213-908-RWF</b>	<b>22321-907-RWF</b>	<b>25619-954-RWF</b>	<b>22170-915-RWF</b>	<b>26738-960-RWF</b>
vii.	RB Nos	<b>Y2800</b>	<b>Y2793</b>	<b>V0148</b>	<b>Y2519</b>	<b>V0122</b>
viii.	RB Make	<b>FAG</b>		<b>FAG</b>		<b>FAG</b>
ix.	RB Type	<b>Direct Mounted Spherical Roller Bearing</b>				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	<b>AJTECH-0266,0199</b>			<b>PEW-0182,0739</b>	
ii.	Secondary shock Absorber Make & NO.	<b>IAI-198059,198056</b>			<b>IAI-198111,198079</b>	
iii.	Lateral Shock Absorber Make & NO.	<b>GABRIEL-880,806</b>			<b>GABRIEL-626,673</b>	
iv.	Air Spring Make & NO.	<b>SI-1576,1555</b>			<b>SI-1538,1573</b>	
11.4						
i.	Modification/Trail(if any):	<b>NIL</b>				
ii.	Deviations (if any):	<b>NIL</b>				

**MEMUTC AS - 8133**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8133	COACH_NO :	188032
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	23-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
14	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
15	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
16	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
17	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
18	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1291
19	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0043
<b>Group Name NON-DRIVING END</b>				
20	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1314
<b>Group Name UNDER FRAME</b>				
21	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
22	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
23	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
24	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
25	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



आवागमन प्रणाली  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188032
RAILWAY CR		DATE OF FITMENT: 23-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name COMPARTMENT			
26	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्वा रोलिंग स्टॉक प्रमाणपत्र

**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8135	BOGIE NO	184513 / 184514	DISPATCH DATE	29-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188034	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	85 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे प्राधिकरण  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

QMF 9828, VER:1.00

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			8135	CR	MEMUTC AS	188034	29-AUG-18			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184513				184514				
ii.	Frame No.	KE-25				ECBT-486				
iii.	Bolster No.	-				-				
iv.	Axle No.	5493		5574		3419		3541		
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	Wheel Disc No.	26698-943-RWF	26749-956-RWF	22278-959-RWF	25887-954-RWF	26647-953-RWF	26644-934-RWF	25969-927-RWF	25919-921-RWF	
vi.										
vii.	RB Nos	V0681	V0167	Y2804	Y2802	Y2511	V0037	V0068	Y2813	
viii.	RB Make	FAG		FAG		FAG		FAG		
ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.				AJTECH-0272,0191		PEW-413,779			
ii.	Secondary shock Absorber Make & NO.				IAI-185421,185467		IAI-198076,198124			
iii.	Lateral Shock Absorber Make & NO.				IAI-199015,199023		GABRIEL-807,632			
iv.	Air Spring Make & NO.				SI-1748,1731		SI-1550,1542			
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUTC AS - 8135



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8135	COACH_NO :	188034
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	24-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
27	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
28	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
29	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
30	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
31	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1244
32	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0034
<b>Group Name NON-DRIVING END</b>				
33	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1303
<b>Group Name UNDER FRAME</b>				
34	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
35	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
36	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
37	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
38	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188034
RAILWAY CR		DATE OF FITMENT: 24-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name COMPARTMENT			
39	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आराम और प्रगति  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8136	BOGIE NO	184515 / 184516	DISPATCH DATE	29-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188036	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे कार्गो  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8136		CR		MEMUTC AS		188036		29-AUG-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"											
11.2	Wheel & Axle Details:											
	i.	Bogie No.	184515					184516				
	ii.	Frame No.	KE-24					ECBT-484				
	iii.	Bolster No.	-					-				
	iv.	Axle No.	K-5098		F-2338		F-2281			K-8173		
	v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
		vi.	Disc No.	27509-921-RWF	27118-915-RWF	27394-944-RWF	27391-946-RWF	27183-902-RWF	27476-916-RWF	27516-903-RWF	27528-920-RWF	
	vii.	RB Nos	V0149	V0150	V0572	Y2504	Y2919	V0565	Y2491	V0571		
	viii.	RB Make	FAG		FAG		FAG			FAG		
	ix.	RB Type	Direct Mounted Spherical Roller Bearing									
11.3	Items traceability:											
	i.	Break Cylinder Make & No.			AJTECH-0133,0215				AJTECH-0218,0180			
	ii.	Secondary shock Absorber Make & NO.			IAI-185408,185418				IAI-185406,185344			
	iii.	Lateral Shock Absorber Make & NO.			GABRIEL-674,671				GABRIEL-676,705			
	iv.	Air Spring Make & NO.			SI-1742,1741				SI-1729,1545			
11.4	i.	Modification/Trail(if any):			NIL							
	ii.	Deviations (if any):			NIL							

MEMUTC AS - 8136



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8136	COACH_NO :	188036
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	25-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
40	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
41	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
42	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
43	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
44	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1240
45	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0044
<b>Group Name NON-DRIVING END</b>				
46	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1256
<b>Group Name UNDER FRAME</b>				
47	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
48	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
49	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
50	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
51	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



आवागमन प्रणाली  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188036
RAILWAY CR		DATE OF FITMENT: 25-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
52	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आराम और प्रगति  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8137	BOGIE NO	184519 / 184520	DISPATCH DATE	29-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188035	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	85 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे कार्गो  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:		Shell No.	Railway		Type		Coach No.		Dispatch Date	
			8137	CR		MEMUTC AS		188035		29-AUG-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	184519				184520				
	ii.	Frame No.	KE-28				ECBT-479				
	iii	Bolster No.	-				-				
	iv.	Axle No.	5066		F-2208		5596		4333		
	v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	953.00	953.00	
		vi.	Wheel Disc No.	22218-917-RWF	22198-912-RWF	25947-951-RWF	26762-927-RWF	22197-927-RWF	22137-954-RWF	22152-940-RWF	22190-950-RWF
	vii	RB Nos	Y2976	Y3054	Y3074	Y3077	V0158	V0134	Y2815	Y2499	
	viii	RB Make	FAG		FAG		FAG		FAG		
	ix	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Break Cylinder Make & No.			PEW-E704,965			AJTECH-04449,0198			
	ii.	Secondary shock Absorber Make & NO.			IAI-198020,198009			IAI-185462,185340			
	iii.	Lateral Shock Absorber Make & NO.			IAI-199031,199013			IAI-198876,199047			
	iv.	Air Spring Make & NO.			SI-1727,1721			SI-1758,1749			
11.4	i.	Modification/Trail(if any):			NIL						
	ii.	Deviations (if any):			NIL						

**MEMUTC AS - 8137**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8137	COACH_NO :	188035
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	25-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
53	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
54	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
55	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
56	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
57	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC
58	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0046
<b>Group Name NON-DRIVING END</b>				
59	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC
<b>Group Name UNDER FRAME</b>				
60	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
61	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
62	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
63	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
64	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



आवागमन प्रणाली  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188035
RAILWAY CR		DATE OF FITMENT: 25-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
65	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



भारतीय रेलवे कार्गो कार्ड

**RAIL COACH FACTORY, KAPURTHALA**

**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8139	BOGIE NO	184517 / 184518		DISPATCH DATE	29-AUG-18
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188037	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे प्रणाली

**RAIL COACH FACTORY, KAPURTHALA**

**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		<b>8139</b>	<b>CR</b>	<b>MEMUTC AS</b>	<b>188037</b>	<b>29-AUG-18</b>
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	<b>184517</b>			<b>184518</b>	
ii.	Frame No.	<b>ECBT-478</b>			<b>ECBT-456</b>	
iii.	Bolster No.	-			-	
iv.	Axle No.	<b>K-8565</b>	<b>K-5569</b>	<b>K-4291</b>	<b>B-4542</b>	
v.	Wheel Diameter	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>
vi.	Wheel Disc No.	<b>27197-918-RWF</b>	<b>27409-950-RWF</b>	<b>27284-958-RWF</b>	<b>27516-954-RWF</b>	<b>27481-944-RWF</b>
vii.	RB Nos	<b>Y3048</b>	<b>Y2996</b>	<b>Y3023</b>	<b>Y3084</b>	<b>Y3083</b>
viii.	RB Make	<b>FAG</b>	<b>FAG</b>	<b>FAG</b>	<b>FAG</b>	
ix.	RB Type	<b>Direct Mounted Spherical Roller Bearing</b>				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	<b>AJTECH-0788,0230</b>			<b>AJTECH-0227,0449</b>	
ii.	Secondary shock Absorber Make & NO.	<b>IAI-198082,198136</b>			<b>IAI-185268,185402</b>	
iii.	Lateral Shock Absorber Make & NO.	<b>GABRIEL-630,628</b>			<b>IAI-198860,198886</b>	
iv.	Air Spring Make & NO.	<b>SI-1715,1708</b>			<b>SI-1762,1755</b>	
11.4						
i.	Modification/Trail(if any):	<b>NIL</b>				
ii.	Deviations (if any):	<b>NIL</b>				

**MEMUTC AS - 8139**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8139	COACH_NO :	188037
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	27-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
66	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
67	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
68	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
69	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
70	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1279
71	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0017
<b>Group Name NON-DRIVING END</b>				
72	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1269
<b>Group Name UNDER FRAME</b>				
73	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
74	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
75	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
76	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
77	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188037
RAILWAY CR		DATE OF FITMENT: 27-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
78	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्य रेलवे कारखाना  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO <b>8138</b>	BOGIE NO	184531 / 184532	DISPATCH DATE	30-AUG-18
2.	RAILWAY <b>CR</b>	TYPE OF COACH	<b>MEMUTC AS</b>	COACH NO	<b>188040</b>
3.	BOOKED TO	<b>SSE/C&amp;W/CSTM</b>			
4.	Tare Weight of Coach	<b>33.15</b>			
5.	Carrying Capacity	Seating	<b>80</b>	Sleeping	<b>NIL</b>
		Luggage	<b>NIL</b>		
6.	6.1 Leading Dimensions:				
	i)	Maximum height above rail to top of roof ventilator		4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)	
	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 lighth		3402 +0/-5	
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)	<b>1035</b>	<b>1035</b>
	vii)	CBC/Shaku Coupler (Make)		<b>ESCORTS</b>	<b>ESCORTS</b>
	viii)	Buffer Make		<b>---</b>	<b>---</b>
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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	
8.	Painting Details:				
			Type of Paint	Make	Average Gloss Value
	8.1	Paint	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>85 / 85</b>
	8.2	Application of PCN-123	<b>SATISFACTORY</b>		
	8.3	Insulation	<b>SATISFACTORY</b>		
9.	Traceability of Furnishing Items:				
	1	<b>EP BRAK / BRAKE EQUIPMENT</b>		<b>ESCORTS</b>	
	2	<b>FLOOR BOARD</b>		<b>SRI RAM</b>	
	3	<b>PVC</b>		<b>RESPONSIVE</b>	
	4	<b>UIC VESTIBULES</b>		<b>CEMCON</b>	
	5	<b>WATER TANKS</b>		<b>RAIL FAB</b>	
	6	<b>SEAT &amp; BEARTH</b>		<b>CPF</b>	
	7	<b>LAVATORY DOORS</b>		<b>TWPL</b>	
	8	<b>BIO-TOILET</b>		<b>PD STEEL, PD STEEL</b>	
10.	10.1	<b>Modification/ Trial (If any): NIL</b>			
	10.2	<b>Deviations (If any): NIL</b>			



भारतीय रेलवे कार्गो  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		<b>8138</b>	<b>CR</b>	<b>MEMUTC AS</b>	<b>188040</b>	<b>30-AUG-18</b>
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	<b>184531</b>			<b>184532</b>	
ii.	Frame No.	<b>ASR-220</b>			<b>ASR-280</b>	
iii.	Bolster No.	<b>-</b>			<b>-</b>	
iv.	Axle No.	<b>6033</b>	<b>K - 7225</b>		<b>1692</b>	<b>0399</b>
v.	Wheel Diameter	<b>953.00</b>	<b>953.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>
vi.	Wheel Disc No.	<b>26716-950-RWF</b>	<b>26712-939-RWF</b>	<b>27083-919-RWF</b>	<b>27502-950-RWF</b>	<b>27477-950-RWF</b>
vii.	RB Nos	<b>Y2867</b>	<b>Y2910</b>	<b>Y2874</b>	<b>Y2866</b>	<b>Y2493</b>
viii.	RB Make	<b>FAG</b>		<b>FAG</b>		<b>FAG</b>
ix.	RB Type	<b>Direct Mounted Spherical Roller Bearing</b>				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	<b>AJTECH-790,0251</b>			<b>PEW-E313,E354</b>	
ii.	Secondary shock Absorber Make & NO.	<b>IAI-198075,198012</b>			<b>IAI-198108,198813</b>	
iii.	Lateral Shock Absorber Make & NO.	<b>IAI-199007,199021</b>			<b>IAI-198834,198027</b>	
iv.	Air Spring Make & NO.	<b>SI-1631,1779</b>			<b>SI-1627,1625</b>	
11.4						
i.	Modification/Trail(if any):	<b>NIL</b>				
ii.	Deviations (if any):	<b>NIL</b>				

**MEMUTC AS - 8138**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8138	COACH_NO :	188040
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	30-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
79	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
80	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
81	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
82	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
83	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1310
84	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0036
<b>Group Name NON-DRIVING END</b>				
85	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1260
<b>Group Name UNDER FRAME</b>				
86	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
87	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
88	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
89	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
90	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188040
RAILWAY CR		DATE OF FITMENT: 30-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name COMPARTMENT			
91	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्य समाज पत्रिका

# RAIL COACH FACTORY, KAPURTHALA

## ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8140	BOGIE NO	184523 / 184524	DISPATCH DATE	30-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188041	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1033	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	86 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे कारखाना  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway		Type		Coach No.		Dispatch Date		
		8140	CR		MEMUTC AS		188041		30-AUG-18		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
i.	Bogie No.	184523					184524				
ii.	Frame No.	ECBT-455					KE-27				
iii	Bolster No.	-					-				
iv.	Axle No.	4072		4018		3841		4081			
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	Wheel Disc No.	26800-918-RWF	22187-938-RWF	26780-942-RWF	22218-925-RWF	22121-946-RWF	22219-926-RWF	24906-935-RWF	26776-948-RWF		
vii	RB Nos	Y2979	Y2888	Y2980	Y3026	Y2970	Y3044	Y3022	Y2978		
viii	RB Make	FAG		FAG		FAG		FAG			
ix	RB Type	Direct Mounted Spherical Roller Bearing									
11.3	Items traceability:										
i.	Break Cylinder Make & No.					PEW-E349,E264		AJTECH-0204,0233			
ii.	Secondary shock Absorber Make & NO.					IAI-185312,185278		IAI-198078,198138			
iii.	Lateral Shock Absorber Make & NO.					IAI-198903,198879		IAI-198992,199001			
iv.	Air Spring Make & NO.					SI-1554,1547		SI-1537,1558			
11.4	i.	Modification/Trail(if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMUTC AS - 8140



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8140	COACH_NO :	188041
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	29-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
92	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
93	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
94	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
95	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
96	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1247
97	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0032
<b>Group Name NON-DRIVING END</b>				
98	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1261
<b>Group Name UNDER FRAME</b>				
99	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
**	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
**	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
**	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
**	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



आवागार पालिका  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188041
RAILWAY CR		DATE OF FITMENT: 29-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
**	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्य समाज पालिका

**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8141	BOGIE NO	184521 / 184522	DISPATCH DATE	30-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188042	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			NARBADA		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे प्राधिकरण  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8141	CR	MEMUTC AS	188042	30-AUG-18
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	184521			184522	
ii.	Frame No.	ECBT-475			KE-26	
iii.	Bolster No.	-			-	
iv.	Axle No.	0379	4019	4083	4043	
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00
vi.	Wheel Disc No.	22157-931-RWF	25977-926-RWF	24964-943-RWF	26178-958-RWF	26748-948-RWF
vii.	RB Nos	Y2997	Y3072	Y2981	Y3028	Y3030
viii.	RB Make	FAG	FAG	FAG	FAG	FAG
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	AJTECH-0195,0147			AJTECH-0194,0209	
ii.	Secondary shock Absorber Make & NO.	IAI-198029,198068			IAI-198014,198081	
iii.	Lateral Shock Absorber Make & NO.	GABRIEL-708,707			IAI-198892,198812	
iv.	Air Spring Make & NO.	SI-1719,1740			SI-1746,1726	
11.4	i.	Modification/Trail(if any):		NIL		
	ii.	Deviations (if any):		NIL		

MEMUTC AS - 8141



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8141	COACH_NO :	188042
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	30-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1272
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0037
<b>Group Name NON-DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1232
<b>Group Name UNDER FRAME</b>				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
**	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
**	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
**	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
**	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188042
RAILWAY CR		DATE OF FITMENT: 30-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
**	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्वा रेलवे कार्गो

**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8142	BOGIE NO	184525 / 184526	DISPATCH DATE	31-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188038	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	85 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे पटवर्ग

**RAIL COACH FACTORY, KAPURTHALA**

**ROLLING STOCK CERTIFICATE (NON-LHB)**

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		<b>8142</b>	<b>CR</b>	<b>MEMUTC AS</b>	<b>188038</b>	<b>31-AUG-18</b>
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	<b>184525</b>			<b>184526</b>	
ii.	Frame No.	<b>ECBT-453</b>			<b>KE-24-A</b>	
iii.	Bolster No.	-			-	
iv.	Axle No.	<b>5060</b>	<b>3094</b>	<b>3413</b>	<b>4740</b>	
v.	Wheel Diameter	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>	<b>954.00</b>
vi.	Wheel Disc No.	<b>22237-938-RWF</b>	<b>22301-958-RWF</b>	<b>22227-937-RWF</b>	<b>22288-944-RWF</b>	<b>26777-951-RWF</b>
vii.	RB Nos	<b>Y3066</b>	<b>Y2869</b>	<b>Y3077</b>	<b>Y2890</b>	<b>Y3055</b>
viii.	RB Make	<b>FAG</b>		<b>FAG</b>		<b>FAG</b>
ix.	RB Type	<b>Direct Mounted Spherical Roller Bearing</b>				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	<b>AJTECH-0239,0226</b>			<b>AJTECH-0203,0248</b>	
ii.	Secondary shock Absorber Make & NO.	<b>IAI-198061,199008</b>			<b>IAI-198040,199010</b>	
iii.	Lateral Shock Absorber Make & NO.	<b>IAI-199039,198026</b>			<b>IAI-199033,198039</b>	
iv.	Air Spring Make & NO.	<b>SI-1618,1632</b>			<b>SI-1624,1698</b>	
11.4						
i.	Modification/Trail(if any):	<b>NIL</b>				
ii.	Deviations (if any):	<b>NIL</b>				

**MEMUTC AS - 8142**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8142	COACH_NO :	188038
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	30-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1276
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0049
<b>Group Name NON-DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1282
<b>Group Name UNDER FRAME</b>				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
**	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
**	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
**	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
**	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188038
RAILWAY CR		DATE OF FITMENT: 30-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
**	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्य रेलवे कारखाना  
**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO <b>8143</b>	BOGIE NO	184527 / 184528	DISPATCH DATE	31-AUG-18
2.	RAILWAY <b>CR</b>	TYPE OF COACH	<b>MEMUTC AS</b>	COACH NO	<b>188039</b>
3.	BOOKED TO <b>SSE/C&amp;W/CSTM</b>				
4.	Tare Weight of Coach <b>33.15</b>				
5.	Carrying Capacity	Seating	<b>80</b>	Sleeping	<b>NIL</b>
				Luggage	<b>NIL</b>
6.	6.1 Leading Dimensions:				
	i)	Maximum height above rail to top of roof ventilator		4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)	
	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 lighth		3402 +0/-5	
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)	<b>1035</b>	<b>1035</b>
	vii)	CBC/Shaku Coupler (Make)		<b>ESCORTS</b>	<b>ESCORTS</b>
	viii)	Buffer Make		<b>---</b>	<b>---</b>
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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	
8.	Painting Details:				
			Type of Paint	Make	Average Gloss Value
	8.1	Paint	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>85 / 85</b>
	8.2	Application of PCN-123	<b>SATISFACTORY</b>		
	8.3	Insulation	<b>SATISFACTORY</b>		
9.	Traceability of Furnishing Items:				
	1	<b>EP BRAK / BRAKE EQUIPMENT</b>		<b>ESCORTS</b>	
	2	<b>FLOOR BOARD</b>		<b>SRI RAM</b>	
	3	<b>PVC</b>		<b>RESPONSIVE</b>	
	4	<b>UIC VESTIBULES</b>		<b>CEMCON</b>	
	5	<b>WATER TANKS</b>		<b>RAIL FAB</b>	
	6	<b>SEAT &amp; BEARTH</b>		<b>AAR KAY FOAM</b>	
	7	<b>LAVATORY DOORS</b>		<b>TWPL</b>	
	8	<b>BIO-TOILET</b>		<b>PD STEEL, PD STEEL</b>	
10.	10.1	<b>Modification/ Trial (If any): NIL</b>			
	10.2	<b>Deviations (If any): NIL</b>			



भारतीय रेलवे कार्गो  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8143	CR	MEMUTC AS	188039	31-AUG-18
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	184527			184528	
ii.	Frame No.	ASR-221			KE-20	
iii.	Bolster No.	-			-	
iv.	Axle No.	3466	4975	4448	3426	
v.	Wheel Diameter	952.00	952.00	953.00	953.00	952.00
vi.	Wheel Disc No.	26769-920-RWF	24911-954-RWF	22287-910-RWF	22302-915-RWF	22238-945-RWF
vii.	RB Nos	Y3037	Y3154	Y2962	Y2898	Y2934
viii.	RB Make	FAG	FAG	FAG	FAG	FAG
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	AJTECH-0273,0196			AJTECH-0207,0253	
ii.	Secondary shock Absorber Make & NO.	IAI-198005,198072			IAI-198091,198098	
iii.	Lateral Shock Absorber Make & NO.	IAI-198995,198842			IAI-199011,199012	
iv.	Air Spring Make & NO.	SI-1771,1636			SI-1712,1748	
11.4	i.	Modification/Trail(if any):	NIL			
	ii.	Deviations (if any):	NIL			

MEMUTC AS - 8143



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8143	COACH_NO :	188039
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	30-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name NO GROUP DEFINED</b>				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name INTERVEHICLE COUPLER SET</b>				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1292
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0052
<b>Group Name NON-DRIVING END</b>				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1241
<b>Group Name UNDER FRAME</b>				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name COMPARTMENT</b>				
**	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
**	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
**	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
**	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188039
RAILWAY CR		DATE OF FITMENT: 30-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
**	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आर्य समाज पत्रिका

**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8144	BOGIE NO	184529 / 184530	DISPATCH DATE	31-AUG-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188043	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	33.15					
5.	Carrying Capacity	Seating	80	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum height above rail to top of roof ventilator			4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN)		
	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 lighth			3402 +0/-5		
	vi)	CBC/Shaku Coupler Height	Specified: 1104 +0/-10 mm (1035 +0/-5 mm for shaku coupler)		1035	1035	
	vii)	CBC/Shaku Coupler (Make)			ESCORTS	ESCORTS	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm <sup>2</sup> of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm <sup>2</sup>		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm <sup>2</sup> in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm <sup>2</sup> 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		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		VIBGYOR	85 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			ESCORTS		
	2	FLOOR BOARD			TWPL, TWPL		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			CPF		
	7	LAVATORY DOORS			TWPL		
	8	BIO-TOILET			PD STEEL, PD STEEL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



भारतीय रेलवे कारखाना  
RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

QMF 9828, VER:1.00

11.	Bogie Details:	Shell No.	Railway		Type		Coach No.		Dispatch Date	
		8144	CR		MEMUTC AS		188043		31-AUG-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184529				184530				
ii.	Frame No.	ASR-285				KE-38				
iii.	Bolster No.	-				-				
iv.	Axle No.	4062		3982		5087		5218		
v.	Wheel Diameter	954.00	954.00	954.00	954.00	953.00	953.00	954.00	954.00	
vi.	Wheel Disc No.	24921-943-RWF	24890-953-RWF	26748-903-RWF	22216-905-RWF	22165-907-RWF	22301-938-RWF	26643-905-RWF	26644-923-RWF	
vii.	RB Nos	Y2988	Y2881	Y2901	Y2894	X0071	X0047	Y2912	Y2939	
viii.	RB Make	FAG		FAG		FAG		FAG		
ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.	AJTECH-0189,0255				AJTECH-0260,0262				
ii.	Secondary shock Absorber Make & NO.	IAI-185427,198095				IAI-198107,198044				
iii.	Lateral Shock Absorber Make & NO.	IAI-198783,198818				IAI-199019,199038				
iv.	Air Spring Make & NO.	SI-1733,1778				SI-1622,1747				
11.4	i.	Modification/Trail(if any):		NIL						
	ii.	Deviations (if any):		NIL						

MEMUTC AS - 8144



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (NON-LHB)**

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH				
TYPE OF COACH : MEMUTASP		Shell No : 8144	COACH_NO :	188043
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	30-AUG-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name</b> NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
<b>Group Name</b> INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-2, IVC SOCKET( FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	S.INTERNATIONAL	NIL
<b>Group Name</b> DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1285
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	INTERNATIONAL SWITCHGEAR PVT.LTD.	ISG-18-04-0031
<b>Group Name</b> NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1270
<b>Group Name</b> UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
<b>Group Name</b> COMPARTMENT				
**	33641985-0, SWITCH PLATE ASSEMBLY (CS& 5 PIN CHARGING SOCKET ,6A) WITH LAMP , G-FUSE OF WAGO/RS/WICKMAN MAKE	EDML055,REV-B, ITEM-4.	ESS ESS KAY ENGG CO.	SSK
**	42020131-0, THREE GANG FRAME FITTED WITH THREE MODULE AND 1AMP, GLASS FUSES OF WAGO/RS/WICKMAN	EDML-055,ITEM-3	ESS ESS KAY ENGG. CO.	SSK
**	42980963-1, PUBLIC ADDRESSING SYSTEM	EDTS 292	AHUJA BY PUNJAB RADIOS	NIL
**	45980380-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT)	CC76460	DR AUTO INDUSTRIES	



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RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
MEMU/TC WITH AIR APRING COACH MEMU/TC WITH AIR SPRING COACH			
TYPE OF COACH : MEMUTASP		COUPLING TYPE : NONCBC	COACH_NO : 188043
RAILWAY CR		DATE OF FITMENT: 30-AUG-18	
S.No	PL No & Item Description	Drawing No	Make Item Sr.No.(if any)
Group Name		COMPARTMENT	
**	45982752-0, RLY CARRIAGE FAN ,450MM SWEEP ,FIXED TYPE 140V, AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026 ALT B.	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	