



आर्य समाज पालिका

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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8148	BOGIE NO	184547 / 184548	DISPATCH DATE	08-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188044	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			AAR KAY FOAM		
	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	
		8148	CR		MEMUTC AS		188044		08-SEP-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184547				184548				
ii.	Frame No.	ASR-05				ASR-30				
iii	Bolster No.	ECBT-4547				ECBT-4548				
iv.	Axle No.	6241		3716		RWF-114363		2742		
v.	Wheel Diameter	954.00	954.00	953.00	953.00	954.00	954.00	954.00	954.00	
	Wheel Disc No.	22295-918-RWF	26734-904-RWF	24936-911-RWF	22141-941-RWF	26720-925-RWF	26720-943-RWF	26770-938-RWF	26777-901-RWF	
vii	RB Nos	Y3031	Y2941	Y3056	Y3029	Y2540	Y2527	Y2534	Y2547	
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-E1172,E1208			PEW-E1016,E886			
ii.	Secondary shock Absorber Make & NO.			IAI-198427,198421			IAI-185284,198411			
iii.	Lateral Shock Absorber Make & NO.			IAI-198165,198263			IAI-198929,198307			
iv.	Air Spring Make & NO.			SI-1661,1613			SI-1616,1620			
11.4	i.	Modification/Trail(if any):		NIL						
	ii.	Deviations (if any):		NIL						

MEMUTC AS - 8148



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 : 8148	COACH_NO :	188044
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	07-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
1	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
2	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
3	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
4	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
5	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1229
6	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018061927
Group Name NON-DRIVING END				
7	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1329
Group Name UNDER FRAME				
8	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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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 : 188044
RAILWAY CR		DATE OF FITMENT: 07-SEP-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 CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8152	BOGIE NO	184543 / 184544	DISPATCH DATE	08-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188047	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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
		8152	CR	MEMUTC AS	188047	08-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
	i. Bogie No.	184543			184544	
	ii. Frame No.	ECBT-458			KE-41	
	iii. Bolster No.	ECBT-4543			ECBT-4544	
	iv. Axle No.	B - 4455	6750		4474	2804
	v. Wheel Diameter	954.00	954.00	954.00	954.00	954.00
	vi. Wheel Disc No.	27410-913-RWF	27517-922-RWF	27331-939-RWF	27339-958-RWF	22270-931-RWF
	vii. RB Nos	Y3075	Y3071	Y2989	Y3107	Y2885
	viii. RB Make	FAG		FAG		FAG
	ix. RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
	i. Break Cylinder Make & No.	PEW-E940,E929			PEW-E1015,E1237	
	ii. Secondary shock Absorber Make & NO.	IAI-185279,185334			IAI-198406,198399	
	iii. Lateral Shock Absorber Make & NO.	IAI-198303,198822			IAI-199035,199020	
	iv. Air Spring Make & NO.	SI-1641,1744			SI-1654,1757	
11.4						
	i. Modification/Trail(if any):	NIL				
	ii. Deviations (if any):	NIL				

MEMUTC AS - 8152



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 : 8152	COACH_NO :	188047
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	06-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
14	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
15	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
16	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
17	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
18	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1287
19	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	
Group Name NON-DRIVING END				
20	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-
Group Name UNDER FRAME				
21	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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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 : 188047
RAILWAY CR		DATE OF FITMENT: 06-SEP-18	Item Sr.No.(if any)
S.No	PL No & Item Description	Drawing No	Make
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/0050(2010,REV-1)	KAPSON
		CONCORD	
SSE/EL/QC		AME/WM QC/DY CQM I	



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RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8155	BOGIE NO	184549 / 184550	DISPATCH DATE	10-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188045	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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
		8155	CR	MEMUTC AS	188045	10-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
	i. Bogie No.	184549			184550	
	ii. Frame No.	ECBT-467			ECBT-459	
	iii. Bolster No.	ECBT-4549			ECBT-4550	
	iv. Axle No.	K-7253	2748		M-8043	K-8567
	v. Wheel Diameter	954.00	954.00	954.00	954.00	954.00
	vi. Wheel Disc No.	27092-952-RWF	27459-921-RWF	27394-912-RWF	27451-915-RWF	27187-918-RWF
	vii. RB Nos	Y2539	Y2541	Y2543	Y2532	X0520
	viii. RB Make	FAG		FAG		FAG
	ix. RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
	i. Break Cylinder Make & No.	PEW-E1247,E955			PEW-E1094,E1066	
	ii. Secondary shock Absorber Make & NO.	IAI-198435,198416			IAI-185277,198414	
	iii. Lateral Shock Absorber Make & NO.	IAI-198902,198836			IAI-198900,198846	
	iv. Air Spring Make & NO.	SI-1706,1678			SI-1669,1718	
11.4						
	i. Modification/Trail(if any):	NIL				
	ii. Deviations (if any):	NIL				

MEMUTC AS - 8155



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 : 8155	COACH_NO :	188045
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	09-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
27	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
28	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
29	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
30	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
31	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1316
32	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1919
Group Name NON-DRIVING END				
33	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1251
Group Name UNDER FRAME				
34	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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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 : 188045
RAILWAY CR		DATE OF FITMENT: 09-SEP-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	



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RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8156	BOGIE NO	184551 / 184552	DISPATCH DATE	10-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188046	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			AAR KAY FOAM		
	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		
			8156	CR	MEMUTC AS	188046	10-SEP-18			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184551				184552				
ii.	Frame No.	ASR-279				ECBT-460				
iii.	Bolster No.	ECBT-4551				ECBT-4552				
iv.	Axle No.	5131		1548		2386		2464		
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	Wheel Disc No.	22279-906-RWF	22287-937-RWF	26740-949-RWF	26795-912-RWF	27382-955-RWF	27137-926-RWF	27517-912-RWF	27307-951-RWF	
vii.	RB Nos	Y3081	Y3047	Y3078	Y2972	Y2647	Y2520	Y2523	Y3094	
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-E1000,E1067			PEW-E1110,E1107			
ii.	Secondary shock Absorber Make & NO.			IAI-198405,198342			IAI-198105,198408			
iii.	Lateral Shock Absorber Make & NO.			IAI-198119,198141			IAI-198821,198831			
iv.	Air Spring Make & NO.			SI-1658,1672			SI-1671,1674			
11.4	i.	Modification/Trail(if any):		NIL						
	ii.	Deviations (if any):		NIL						

MEMUTC AS - 8156



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 : 8156	COACH_NO :	188046
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	09-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
40	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
41	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
42	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
43	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
44	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1319
45	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1912
Group Name NON-DRIVING END				
46	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1250
Group Name UNDER FRAME				
47	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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 : 188046
RAILWAY CR		DATE OF FITMENT: 09-SEP-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/0050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



आयुर्वेद पालेय

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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8157	BOGIE NO	184557 / 184558	DISPATCH DATE	12-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188049	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS		GS	75 / 75	
	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			AAR KAY FOAM		
	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		
			8157	CR	MEMUTC AS	188049		12-SEP-18		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
	i.	Bogie No.	184557				184558			
	ii.	Frame No.	KE-39				ECBT-461			
	iii.	Bolster No.	ECBT-4557				ECBT-4558			
	iv.	Axle No.	M-8489		K-4494		RWF-112498		2438	
	v.	Wheel Diameter	954.00	954.00	954.00	954.00	953.00	953.00	953.00	953.00
		Wheel Disc No.	27464-905-RWF	27524-928-RWF	26647-915-RWF	13923-933-RWF	22286-906-RWF	26704-916-RWF	27317-917-RWF	27380-952-RWF
	vii.	RB Nos	Y2794	Y2818	Y2819	Y2797	X0129	X0124	X0123	X0103
	viii.	RB Make	FAG		FAG		FAG		FAG	
	ix.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:									
	i.	Break Cylinder Make & No.			WSF-1672,1704			WSF-1685,1687		
	ii.	Secondary shock Absorber Make & NO.			IAI-198046,198110			IAI-198052,198424		
	iii.	Lateral Shock Absorber Make & NO.			IAI-198926,199000			IAI-198827,198866		
	iv.	Air Spring Make & NO.			SI-1663,1642			SI-1659,1657		
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUTC AS - 8157



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 : 8157	COACH_NO :	188049
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	11-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
53	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
54	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
55	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
56	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
57	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1242
58	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1912
Group Name NON-DRIVING END				
59	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1301
Group Name UNDER FRAME				
60	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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 : 188049
RAILWAY CR		DATE OF FITMENT: 11-SEP-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/0050(2010,REV-1)	KAPSON CONCORD
SSE/EL/QC		AME/WM QC/DY CQM I	



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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8154	BOGIE NO	184555 / 184556	DISPATCH DATE	13-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188062	
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)			SANROK	SANROK	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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			
			8154	CR	MEMUTC AS	188062	13-SEP-18			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
	i.	Bogie No.	184555				184556			
	ii.	Frame No.	KE-42				ECBT-462			
	iii.	Bolster No.	ECBT-4555				ECBT-4556			
	iv.	Axle No.	5625		5063		2418		2393	
	v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	953.00	953.00
		vi.	Wheel Disc No.	24903-925-RWF	25816-958-RWF	22288-905-RWF	26722-934-RWF	27478-956-RWF	27532-926-RWF	27179-912-RWF
	vii.	RB Nos	V0054	Y2747	V0065	Y2509	X0066	X0059	X0126	X0048
	viii.	RB Make	FAG		FAG		FAG		FAG	
	ix.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:									
	i.	Break Cylinder Make & No.	WSF-724,718				WSF-708,726			
	ii.	Secondary shock Absorber Make & NO.	KBI-1882,1887				IAI-198412,198431			
	iii.	Lateral Shock Absorber Make & NO.	IAI-198904,198267				IAI-198811,198851			
	iv.	Air Spring Make & NO.	SI-1637,1728				SI-1651,1650			
11.4	i.	Modification/Trail(if any):	NIL							
	ii.	Deviations (if any):	NIL							

MEMUTC AS - 8154



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 : 8154	COACH_NO :	188062
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	12-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
66	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
67	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
68	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
69	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
70	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1267
71	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1907
Group Name NON-DRIVING END				
72	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1230
Group Name UNDER FRAME				
73	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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 : 188062
RAILWAY CR		DATE OF FITMENT: 12-SEP-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/0050(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 8160	BOGIE NO	184559 / 184560	DISPATCH DATE	13-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188063
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 ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	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		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		CEMCON	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		AAR KAY FOAM	
	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		
		8160	CR		MEMUTC AS		188063		13-SEP-18		
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"											
11.2 Wheel & Axle Details:											
11.2	i.	Bogie No.	184559				184560				
	ii.	Frame No.	KE-33				ECBT-454				
	iii.	Bolster No.	ECBT-4559				ECBT-4560				
	iv.	Axle No.	2405		N-0209		N-0483		2457		
	v.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00	953.00	953.00	953.00	
		Wheel Disc No.	27296-935-RWF	27175-956-RWF	27373-928-RWF	27285-917-RWF	27492-935-RWF	27464-910-RWF	27586-921-RWF	27391-913-RWF	
	vi.	RB Nos	X0098	X0114	X0111	X0109	X0095	X0034	X0104	X0128	
	viii.	RB Make	FAG		FAG		FAG		FAG		
	ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3 Items traceability:											
11.3	i.	Break Cylinder Make & No.	WSF-717,737				WSF-726,700				
	ii.	Secondary shock Absorber Make & NO.	IAI-198016,198031				IAI-198126,198426				
	iii.	Lateral Shock Absorber Make & NO.	IAI-199009,199036				IAI-198930,198282				
	iv.	Air Spring Make & NO.	SI-1710,1693				SI-1692,1705				
11.4	i.	Modification/Trail(if any):	NIL								
	ii.	Deviations (if any):	NIL								

MEMUTC AS - 8160



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 : 8160	COACH_NO :	188063
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	12-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
79	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
80	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
81	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
82	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
83	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1308
84	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1934
Group Name NON-DRIVING END				
85	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1221
Group Name UNDER FRAME				
86	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name COMPARTMENT				
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	D



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 : 188063
RAILWAY CR		DATE OF FITMENT: 12-SEP-18	Item Sr.No.(if any)
S.No	PL No & Item Description	Drawing No	Make
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	



आर्वा रोलिंग स्टॉक प्रमाणपत्र

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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8158	BOGIE NO	184565 / 184566	DISPATCH DATE	15-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188064	
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)			SANROK	SANROK	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			AAR KAY FOAM		
	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
		8158	CR	MEMUTC AS	188064	15-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	184565			184566	
ii.	Frame No.	ECBT-457			ASR-02	
iii.	Bolster No.	ECBT-4565			ECBT-4566	
iv.	Axle No.	3808	3668	3862	3762	
v.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00
vi.	Wheel Disc No.	25823-952-RWF	22274-955-RWF	26740-912-RWF	26741-907-RWF	25987-956-RWF
vii.	RB Nos	X0354	W2076	X0383	W2104	X0375
viii.	RB Make	FAG	FAG	FAG	FAG	
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	WSF-890,798			PEW-1715,1734	
ii.	Secondary shock Absorber Make & NO.	KBI-1883,1901			IAI-198289,198050	
iii.	Lateral Shock Absorber Make & NO.	IAI-198307,198808			IAI-198099,198918	
iv.	Air Spring Make & NO.	SI-1647,1685			SI-1699,1702	
11.4						
i.	Modification/Trail(if any):	NIL				
ii.	Deviations (if any):	NIL				

MEMUTC AS - 8158



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 : 8158	COACH_NO :	188064
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	14-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
92	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
93	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
94	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
95	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
96	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1238
97	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	NEC
Group Name NON-DRIVING END				
98	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1261
Group Name UNDER FRAME				
99	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188064
RAILWAY CR		DATE OF FITMENT: 14-SEP-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	



भारतीय रेलवे कार्गो कार्ड

RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8159	BOGIE NO	184561 / 184562		DISPATCH DATE	15-SEP-18
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188065	
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)			SANROK	SANROK	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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		
			8159	CR	MEMUTC AS	188065		15-SEP-18		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184561				184562				
ii.	Frame No.	KE-29				KE-35				
iii.	Bolster No.	ECBT-4561				ECBT-4562				
iv.	Axle No.	K-8719		G-9902		RWF-112085		2747		
v.	Wheel Diameter	952.00	952.00	952.00	952.00	953.00	953.00	954.00	954.00	
	Wheel Disc No.	25831-960-RWF	26720-949-RWF	26775-951-RWF	24961-944-RWF	25962-950-RWF	25918-920-RWF	27841-915-RWF	27318-927-RWF	
vi.										
vii.	RB Nos	Y2648	Y2688	Y2651	Y2645	Y2646	Y2654	X0230	X0030	
viii.	RB Make	FAG		FAG		FAG		FAG		
ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.				WSF-717,711		WSF-126,715			
ii.	Secondary shock Absorber Make & NO.				IAI-198070,198042		KBI-1898,1899			
iii.	Lateral Shock Absorber Make & NO.				IAI-198309,198993		IAI-198924,198887			
iv.	Air Spring Make & NO.				SI-1695,1687		SI-1709,1696			
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUTC AS - 8159



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 : 8159	COACH_NO :	188065
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	14-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-125
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	NEC
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188065
RAILWAY CR		DATE OF FITMENT: 14-SEP-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	



भारतीय रेलवे कार्गो कार्ड

RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO 8161	BOGIE NO	184563 / 184564	DISPATCH DATE	15-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188066
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	1033
	vii)	CBC/Shaku Coupler (Make)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	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		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		CEMCON	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		AAR KAY FOAM	
	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		
			8161	CR	MEMUTC AS	188066	15-SEP-18			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184563				184564				
ii.	Frame No.	ECBT-464				ASR-173				
iii.	Bolster No.	ECBT-4563				ECBT-4564				
iv.	Axle No.	T-4540		RWF-111698		RWF-114194		RWF-114149		
v.	Wheel Diameter	952.00	952.00	953.00	953.00	953.00	953.00	953.00	953.00	
	Wheel Disc No.	24963-908-RWF	25807-917-RWF	25893-940-RWF	25867-916-RWF	27270-921-RWF	27163-901-RWF	27422-952-RWF	24928-902-RWF	
vi.										
vii.	RB Nos	Y2885	Y2668	Y2643	X0913	Y2683	X0914	Y2649	X0930	
viii.	RB Make	FAG		FAG		FAG		FAG		
ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.				WSF-1714,1744		WSF-1205,1756			
ii.	Secondary shock Absorber Make & NO.				IAI-198011,198063		KBI-1896,1801			
iii.	Lateral Shock Absorber Make & NO.				IAI-199042,198268		IAI-198844,198875			
iv.	Air Spring Make & NO.				SI-1688,1704		SI-1713,1714			
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUTC AS - 8161



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 : 8161	COACH_NO :	188066
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	15-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1269
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1921
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1333
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188066
RAILWAY CR		DATE OF FITMENT: 15-SEP-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 रोलिंग स्टॉक प्रमाणपत्र

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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8163	BOGIE NO	184567 / 184568	DISPATCH DATE	15-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188067	
3.	BOOKED TO	SSE/C&W/CST					
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)			SANROK	SANROK	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	85 / 85	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			WSF		
	2	FLOOR BOARD			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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
		8163	CR	MEMUTC AS	188067	15-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
	i. Bogie No.	184567			184568	
	ii. Frame No.	KE-37			KE-31	
	iii. Bolster No.	ECBT-4567			ECBT-4568	
	iv. Axle No.	3766	F - 2258		RWF - 114161	3657
	v. Wheel Diameter	953.00	953.00	953.00	953.00	954.00
	vi. Disc No.	22200-959-RWF	26679-904-RWF	24917-941-RWF	24965-952-RWF	24956-937-RWF
	vii. RB Nos	X0379	W1035	X0750	X0351	X0009
	viii. RB Make	FAG		FAG		FAG
	ix. RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
	i. Break Cylinder Make & No.	WSF-1037,1384			WSF-803,809	
	ii. Secondary shock Absorber Make & NO.	IAI-198048,198087			IAI-198423,198465	
	iii. Lateral Shock Absorber Make & NO.	IAI-196825,198997			IAI-198847,198311	
	iv. Air Spring Make & NO.	SI-1681,1703			SI-1831,1753	
11.4						
	i. Modification/Trail(if any):	NIL				
	ii. Deviations (if any):	NIL				

MEMUTC AS - 8163



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
RAILWAY CR

Shell No : 8163
COUPLING TYPE : NONCBC

COACH_NO : 188067
DATE OF FITMENT: 15-SEP-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET (FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1322
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1902
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1334
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188067
RAILWAY CR		DATE OF FITMENT: 15-SEP-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 पुराण

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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8150	BOGIE NO	184553 / 184554	DISPATCH DATE	17-SEP-18	
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188048	
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 ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	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			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			CEMCON		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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	
		8150	CR		MEMUTC AS		188048		17-SEP-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	184553				184554				
ii.	Frame No.	ECBT-492				KE-22				
iii.	Bolster No.	ECBT-4553				ECBT-4554				
iv.	Axle No.	F - 2266		K - 5639		5293		B - 5281		
v.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	Wheel Disc No.	27494-952-RWF	27430-915-RWF	27087-916-RWF	27088-943-RWF	26732-941-RWF	26732-926-RWF	26655-905-RWF	26726-920-RWF	
vii.	RB Nos	Y2512	Y2535	Y2633	Y2650	Y3051	Y3082	Y3067	Y2495	
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-E1223,E919			PEW-E575,E916			
ii.	Secondary shock Absorber Make & NO.			IAI-198434,198343			IAI-198033,198069			
iii.	Lateral Shock Absorber Make & NO.			IAI-198912,198919			IAI-198262,198265			
iv.	Air Spring Make & NO.			SI-1676,1656			SI-1663,1655			
11.4	i.	Modification/Trail(if any):		NIL						
	ii.	Deviations (if any):		NIL						

MEMUTC AS - 8150



आर्य समाज 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		Shell No : 8150	COACH_NO :	188048
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	10-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1218
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1918
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1324
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188048
RAILWAY CR		DATE OF FITMENT: 10-SEP-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 8162	BOGIE NO	184569 / 184570	DISPATCH DATE	19-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188069
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)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	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		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		CEMCON	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		AAR KAY FOAM	
	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		
		8162	CR		MEMUTC AS		188069		19-SEP-18		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	184569				184570				
	ii.	Frame No.	KE-45				ASR-204				
	iii.	Bolster No.	ECBT-4569				ECBT-4570				
	iv.	Axle No.	F-2359		2442		3785		3835		
	v.	Wheel Diameter	954.00	954.00	954.00	954.00	955.00	955.00	955.00	955.00	
		vi.	Wheel Disc No.	22084-907-RWF	22280-943-RWF	26737-956-RWF	26719-910-RWF	22295-958-RWF	22327-921-RWF	22319-910-RWF	26719-924-RWF
	vii.	RB Nos	X0387	X0346	W2089	X0007	X0014	X0015	X0037	X0017	
	viii.	RB Make	FAG		FAG		FAG		FAG		
	ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Break Cylinder Make & No.			WSF-1017,1033			WSF-795,805			
	ii.	Secondary shock Absorber Make & NO.			KBI-1902,1828			IAI-198429,198418			
	iii.	Lateral Shock Absorber Make & NO.			IAI-198838,198889			IAI-198916,198305			
	iv.	Air Spring Make & NO.			SI-1781,1809			SI-1767,1640			
11.4	i.	Modification/Trail(if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMUTC AS - 8162



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 : 8162	COACH_NO :	188069
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	18-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1280
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-12901
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188069
RAILWAY CR		DATE OF FITMENT: 18-SEP-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	



आराम के पथ पर
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO 8164	BOGIE NO	184571 / 184572	DISPATCH DATE	19-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188070
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	1034
	vii)	CBC/Shaku Coupler (Make)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	85 / 86
	8.2	Application of PCN-123	SATISFACTORY		
	8.3	Insulation	SATISFACTORY		
9.	Traceability of Furnishing Items:				
	1	EP BRAK / BRAKE EQUIPMENT		WSF	
	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 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
		8164	CR	MEMUTC AS	188070	19-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	184571			184572	
ii.	Frame No.	KE-30			KE-17	
iii.	Bolster No.	ECBT-4571			ECBT-4572	
iv.	Axle No.	3816	3686	3754	3802	
v.	Wheel Diameter	955.00	955.00	954.00	954.00	955.00
vi.	Wheel Disc No.	27524-907-RWF	27156-954-RWF	24963-930-RWF	22300-921-RWF	25111-901-RWF
vii.	RB Nos	X0002	X0020	X0026	X0352	X0025
viii.	RB Make	FAG	FAG	FAG	FAG	
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	WSF-1201,1015			WSF-1193,1372	
ii.	Secondary shock Absorber Make & NO.	IAI-198430,198386			IAI-198417,198395	
iii.	Lateral Shock Absorber Make & NO.	IAI-198869,198279			IAI-199046,199003	
iv.	Air Spring Make & NO.	SI-1660,1673			SI-1784,1648	
11.4						
i.	Modification/Trail(if any):	NIL				
ii.	Deviations (if any):	NIL				

MEMUTC AS - 8164



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
RAILWAY CR

Shell No : 8164
COUPLING TYPE : NONCBC

COACH_NO : 188070
DATE OF FITMENT: 15-SEP-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET (FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1321
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1306
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1317
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188070
RAILWAY CR		DATE OF FITMENT: 15-SEP-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	



भारतीय रेलवे कार्गो कार्ड

RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO 8166	BOGIE NO	184583 / 184585	DISPATCH DATE	19-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188073
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)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	85 / 85
	8.2	Application of PCN-123	SATISFACTORY		
	8.3	Insulation	SATISFACTORY		
9.	Traceability of Furnishing Items:				
	1	EP BRAK / BRAKE EQUIPMENT		WSF	
	2	FLOOR BOARD		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		BASANT	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		OVPL	
	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
		8166	CR	MEMUTC AS	188073	19-SEP-18
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	184583			184585	
ii.	Frame No.	ASR-207			ECBT-499	
iii.	Bolster No.	ECBT-4583			ECBT-4585	
iv.	Axle No.	D-5444	RWF-114066		M-8277	3752
v.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00
vi.	Wheel Disc No.	26734-941-RWF	26733-912-RWF	25831-941-RWF	25874-911-RWF	25876-911-RWF
vii.	RB Nos	X0068	X0113	X0092	W2000	W2113
viii.	RB Make	FAG		FAG	FAG	FAG
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	WSF-1700,1721			WSF-1698,1706	
ii.	Secondary shock Absorber Make & NO.	KBI-1940,1974			IAI-198025,198401	
iii.	Lateral Shock Absorber Make & NO.	IAI-198893,198852			IAI-191720,191729	
iv.	Air Spring Make & NO.	SI-1670,1829			SI-1814,1580	
11.4	i.	Modification/Trail(if any):		NIL		
	ii.	Deviations (if any):		NIL		

MEMUTC AS - 8166



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 : 8166	COACH_NO :	188073
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	19-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1252
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1209
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1245
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



आयुर्वेद पीएलईयू
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 : 188073
RAILWAY CR		DATE OF FITMENT: 19-SEP-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	



भारतीय रेलवे कार्गो कार्ड

RAIL COACH FACTORY, KAPURTHALA

ROLLING STOCK CERTIFICATE (NON-LHB)

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO 8167	BOGIE NO	184578 / 184579	DISPATCH DATE	19-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188072
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)	1032	1033
	vii)	CBC/Shaku Coupler (Make)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	85 / 85
	8.2	Application of PCN-123	SATISFACTORY		
	8.3	Insulation	SATISFACTORY		
9.	Traceability of Furnishing Items:				
	1	EP BRAK / BRAKE EQUIPMENT		WSF	
	2	FLOOR BOARD		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		BASANT	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		OVPL	
	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	
			8167	CR		MEMUTC AS		188072		19-SEP-18	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	184578				184579				
	ii.	Frame No.	ASR-15				ASR-01				
	iii.	Bolster No.	ECBT-4578				ECBT-4579				
	iv.	Axle No.	3796		3797		2690		F-2304		
	v.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00	953.00	953.00	953.00	
		vi.	Wheel Disc No.	22291-913-RWF	25873-950-RWF	27476-913-RWF	27402-947-RWF	27266-938-RWF	27104-958-RWF	26783-911-RWF	22085-909-RWF
	vii.	RB Nos	W2085	W1037	W2108	W2150	W2106	W0020	W2117	W2133	
	viii.	RB Make	FAG		FAG		FAG		FAG		
	ix.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Break Cylinder Make & No.			WSF-1717,1720			WSF-1189,1376			
	ii.	Secondary shock Absorber Make & NO.			KBI-1976,1962			IAI-198043,198413			
	iii.	Lateral Shock Absorber Make & NO.			IAI-198874,198830			IAI-198839,198867			
	iv.	Air Spring Make & NO.			SI-1638,1675			SI-1690,1644			
11.4	i.	Modification/Trail(if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMUTC AS - 8167



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
RAILWAY CR

Shell No : 8167
COUPLING TYPE : NONCBC

COACH_NO : 188072
DATE OF FITMENT: 19-SEP-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1325
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-125
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1299
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188072
RAILWAY CR		DATE OF FITMENT: 19-SEP-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	



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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	8170	BOGIE NO	184573 / 184574		DISPATCH DATE	19-SEP-18
2.	RAILWAY	CR	TYPE OF COACH	MEMUTC AS	COACH NO	188068	
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)			SANROK	SANROK	
	viii)	Buffer Make			---	---	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm ²		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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		GS	85 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			WSF		
	2	FLOOR BOARD			SRI RAM		
	3	PVC			RESPONSIVE		
	4	UIC VESTIBULES			BASANT		
	5	WATER TANKS			RAIL FAB		
	6	SEAT & BEARTH			AAR KAY FOAM		
	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		
			8170	CR	MEMUTC AS	188068	19-SEP-18			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
	i.	Bogie No.	184573				184574			
	ii.	Frame No.	KE-36				KE-34			
	iii.	Bolster No.	ECBT-4573				ECBT-4574			
	iv.	Axle No.	3753		3823		2381		2455	
	v.	Wheel Diameter	955.00	955.00	955.00	955.00	954.00	954.00	955.00	955.00
		vi.	Wheel Disc No.	22156-907-RWF	26720-922-RWF	26710-907-RWF	26724-931-RWF	26682-913-RWF	22171-911-RWF	27528-901-RWF
	vii.	RB Nos	X0018	X0012	X0022	X0016	W2138	W2107	W2178	X0013
	viii.	RB Make	FAG		FAG		FAG		FAG	
	ix.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:									
	i.	Break Cylinder Make & No.			WSF-7074,7014			WSF-1186,1210		
	ii.	Secondary shock Absorber Make & NO.			KBI-1885,1880			KBI-1829,1889		
	iii.	Lateral Shock Absorber Make & NO.			IAI-195959,198903			IAI-198310,199025		
	iv.	Air Spring Make & NO.			SI-1817,1818			SI-1783,1826		
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUTC AS - 8170



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 : 8170	COACH_NO :	188068
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	18-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1245
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1317
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1293
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188068
RAILWAY CR		DATE OF FITMENT: 18-SEP-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	



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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO 8165	BOGIE NO	184576 / 184577	DISPATCH DATE	20-SEP-18
2.	RAILWAY CR	TYPE OF COACH	MEMUTC AS	COACH NO	188071
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	1033
	vii)	CBC/Shaku Coupler (Make)		SANROK	SANROK
	viii)	Buffer Make		---	---
7.	Air Brake Testing:				
	Description			Specified	
	7.1	Emergency Application	Time for 0 to 36 Kg/cm ² of BC	Less than 05 Sec	
			Brake release time to reach 0.4 Kg/cm ²	Less than 20 Sec	
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² in 60 Sec	No brake application	
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm ² 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	GS	85 / 85
	8.2	Application of PCN-123	SATISFACTORY		
	8.3	Insulation	SATISFACTORY		
9.	Traceability of Furnishing Items:				
	1	EP BRAK / BRAKE EQUIPMENT		WSF	
	2	FLOOR BOARD		SRI RAM	
	3	PVC		RESPONSIVE	
	4	UIC VESTIBULES		BASANT	
	5	WATER TANKS		RAIL FAB	
	6	SEAT & BEARTH		OVPL	
	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
		8165	CR	MEMUTC AS	188071	20-SEP-18
11.1 BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"						
11.2 Wheel & Axle Details:						
i.	Bogie No.	184576			184577	
ii.	Frame No.	ASR-04			ASR-18	
iii.	Bolster No.	ECBT-4576			ECBT-4577	
iv.	Axle No.	9535	N - 0486		1475	A - 0473
v.	Wheel Diameter	954.00	954.00	954.00	954.00	953.00
vi.	Wheel Disc No.	27328-953-RWF	27417-932-RWF	27512-954-RWF	27509-958-RWF	26683-923-RWF
vii.	RB Nos	X0121	X0120	W2111	W2123	X0008
viii.	RB Make	FAG		FAG		FAG
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3 Items traceability:						
i.	Break Cylinder Make & No.	WSF-1063,1757			WSF-1681,1691	
ii.	Secondary shock Absorber Make & NO.	IAI-198425,198402			KBI-1892,1893	
iii.	Lateral Shock Absorber Make & NO.	IAI-199024,198851			IAI-199034,198883	
iv.	Air Spring Make & NO.	SI-1770,1775			SI-1601,1535	
11.4						
i.	Modification/Trail(if any):	NIL				
ii.	Deviations (if any):	NIL				

MEMUTC AS - 8165



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 : 8165	COACH_NO :	188071
RAILWAY CR		COUPLING TYPE : NONCBC	DATE OF FITMENT:	18-SEP-18
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NO GROUP DEFINED				
**	42010068-0, 5 PIN PANEL MOUNTED SOCKET RATED 30A,415V	2417B OF BCH.	BCH MAKE	BCH
Group Name INTERVEHICLE COUPLER SET				
**	45138977-1, IVC PLUG (MALE COUPLER) ON STATION SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-2, IVC SOCKET(FEMALE COUPLER) ON MRS SIDE END WALL	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
**	45138977-3, DUMMY SOCKETS FOR MALE COUPLERS ON STATION SIDE	EDML006 REV-A WITH RCF ANNEXURE	MAA LUXMI INDUS.	NIL
Group Name DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018--06-1246
**	31757017-0, MCB PANEL ARRANGEMENT ON END CONSTRUCTION	DRG. MEMU/TC-7-5-005 COL-I ALT"a"	NEC SWITCHGEARS & CONTROLS	2018-06-1924
Group Name NON-DRIVING END				
**	31750564-0, TERMINAL BOARDS END WALL FOR MEMU/DMC COACH	EM75005	NEC SW. GEARS & CONTROLS	NEC-2018-06-1295
Group Name UNDER FRAME				
**	42984488-1, HAND LAMP SOCKETS 10A, 250V	SIMILAR TO TYPE AS 10 OF M/S. CROMPTON MAKE	SCHNEIDER ELECT,	NIL
Group Name 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	D



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 : 188071
RAILWAY CR		DATE OF FITMENT: 18-SEP-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	