



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

(FORM NO. QMF 4254 VER.1.00)

1.	SHELL NO	2014	BOGIE NO	222101 / 222102	DISPATCH DATE	04-FEB-23	
2.	RAILWAY	ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228122	
3.	BOOKED TO	SSE/C&W/KUR					
4.	Tare Weight of Coach	39					
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	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN				
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK				
	3	COMPOSITE MODULAR TOILET	HINDUSTAN				
	4	LAVATORY DOORS	HINDUSTAN				
	5	SEAT & BEARTH	VIBGYOR				
	6	FLOOR BOARD	SRI RAM				
	7	UIC VESTIBULES	KRP				
	8	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	9	BODY SIDE WINDOW	AIR FLOW				
	10	ROOF CEILING	M.V MOBILTY				
	11	ROLLING SHUTTER	DHINJAN				
	12	COMPACT DUSTBIN	HINDUSTAN				
	13	LUGGAGE RACK	RAIL TECH				
	14	LAVATORY WINDOW	NOT APPLICABLE				
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME				
	16	PARTITION FRAME	NOT TRACEABLE				
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
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	
			2014		ECOR		MEMUT3PB		228122		04-FEB-23	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: ICF/MRVC/C/BT-0-0-001 ALT e											
11.2	Wheel & Axle Details:											
	i.	Bogie No.	222101					222102				
	ii.	Frame No.	KE-96					KE-106				
	iii.	Bolster No.	AVI-27					AVI-15				
	iv.	Axle No.	RWF - D0995		RWF - R3833		RWF - M5619		RWF - R3939			
	v.	Wheel Diameter	953.00	953.00	952.00	952.00	952.00	952.00	952.00	952.00	952.00	
	vi.	Wheel Disc No.	14546-15866-SAIL	14451-15866-SAIL	68237-11134-SAIL	68238-11134-SAIL	68241-11134-SAIL	68243-11134-SAIL	39589-06080-SAIL	14548-15866-SAIL		
	vii.	RB Nos	J0921	M0359	J0947	J0900	D1099	J0885	D1116	D1095		
	viii.	RB Make	NBC		NBC		NBC		NBC			
	ix.	RB Type	Direct Mounted Spherical Roller Bearing									
11.3	Items traceability:											
	i.	Brake Cylinder Make & No.			KOLLEY-2154, 2217, 2214, 2150				KOLLEY-2185, 2138, 2131, 2192			
	ii.	Secondary shock Absorber Make & NO.			KBI-14071, 14104				KBI-14110, 14109			
	iii.	Lateral Shock Absorber Make & NO.			GABRIEL-122, 133				GABRIEL-103, 128			
	iv.	Air Spring Make & NO.			RESISTO-18-08-8871, 8864				SI-19-09-3273, 3290			
11.4	i.	Modification/Trail(if any):			NIL							
	ii.	Deviations (if any):			NIL							

MEMUT3PB - 2014



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2014 COUPLING TYPE : NONCBC	COACH_NO : 228122 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			HARTING INDIA
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
			NIL
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
			NIL
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
			NIL
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
			NIL
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2104055 TO 2204049
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2204090/ 2204056/ 2204084/ 2204085
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			026/2022 & 026/2022



आयात व निर्यात प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228122 DATE OF FITMENT: 31-JAN-23
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	2015	BOGIE NO	222195 / 222196	DISPATCH DATE	04-FEB-23	
2.	RAILWAY	ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228123	
3.	BOOKED TO	SSE/C&W/KUR					
4.	Tare Weight of Coach	39					
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)			FRONTIER	FRONTIER	
	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	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN				
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK				
	3	COMPOSITE MODULAR TOILET	HIND				
	4	LAVATORY DOORS	HIND				
	5	SEAT & BEARTH	VIBGYOR				
	6	FLOOR BOARD	SRI RAM				
	7	UIC VESTIBULES	ELASTOMER				
	8	EP BRAK / BRAKE EQUIPMENT	KBI				
	9	BODY SIDE WINDOW	AIR FLOW				
	10	ROOF CEILING	OMEGA				
	11	ROLLING SHUTTER	DHINJAN				
	12	COMPACT DUSTBIN	HIND				
	13	LUGGAGE RACK	RAIL TECH				
	14	LAVATORY WINDOW	NOT APPLICABLE				
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME				
	16	PARTITION FRAME	NOT TRACEABLE				
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
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
		2015	ECOR	MEMUT3PB	228123	04-FEB-23
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: 222195ICF/MRVC/C/BT-0-0-001 Alt 'e'					
11.2	Wheel & Axle Details:					
i.	Bogie No.	222195			222196	
ii.	Frame No.	KE-90			ECBT-395	
iii.	Bolster No.	SSM-38			AVI-44	
iv.	Axle No.	RWF - P3203		RWF - P3696	RWF - N5076	RWF - P4950
v.	Wheel Diameter	953.00	953.00	953.00	953.00	953.00
vi.	Wheel Disc No.	F5103-924-RWF	FFJF2-920-RWF	47745-917-RWF	47881-930-RWF	17665-935-RWF
vii.	RB Nos	E0213	E0195	E0174	E0167	E0185
viii.	RB Make	NBC		NBC	NBC	NBC
ix.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Brake Cylinder Make & No.	KOLLEY-2105, 2389, 2394, 2376			KOLLEY-3418, 3086, 3420, 3428	
ii.	Secondary shock Absorber Make & NO.	IAI-256764, 256782			IAI-256728, 256696	
iii.	Lateral Shock Absorber Make & NO.	KNORR-16012, 16427			KNORR-16014, 16824	
iv.	Air Spring Make & NO.	TAYAL-19-06-1638, 1624			SI-19-09-3312, 3283	
11.4	i.	Modification/Trail(if any):		NIL		
	ii.	Deviations (if any):		NIL		

MEMUT3PB - 2015



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2015 COUPLING TYPE : NONCBC	COACH_NO : 228123 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			HARTING INDIA
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
			NIL
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
			NIL
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
			NIL
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
			NIL
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2204050 TO 2204041
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2204066/ 2204081/ 2204088/ 2204068
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			026/2022 & 025/2022



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228123 DATE OF FITMENT: 31-JAN-23
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 2016	BOGIE NO	222109 / 222110	DISPATCH DATE	04-FEB-23
2.	RAILWAY ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228124
3.	BOOKED TO	SSE/C&W/KUR			
4.	Tare Weight of Coach	39			
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)		FRONTIER	FRONTIER
	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	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN		
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK		
	3	COMPOSITE MODULAR TOILET	HIND		
	4	LAVATORY DOORS	HIND		
	5	SEAT & BEARTH	VIBGYOR		
	6	FLOOR BOARD	SRI RAM		
	7	UIC VESTIBULES	KRP		
	8	EP BRAK / BRAKE EQUIPMENT	FAVELLY		
	9	BODY SIDE WINDOW	AIR FLOW		
	10	ROOF CEILING	OMEGA		
	11	ROLLING SHUTTER	DHINJAN		
	12	COMPACT DUSTBIN	HIND		
	13	LUGGAGE RACK	RAIL TECH		
	14	LAVATORY WINDOW	NOT APPLICABLE		
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME		
	16	PARTITION FRAME	NOT TRACEABLE		
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE		
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE		
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	
			2016	ECOR		MEMUT3PB		228124		04-FEB-23	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: ICF/MRVC/C/BT-0-0-001 ALT e										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	222109				222110				
	ii.	Frame No.	CRG-365				KE-108				
	iii	Bolster No.	AVI-34				AVI-029				
	iv.	Axle No.	RWF - R4280		RWF - R3896		RWF - R3614		RWF - R4198		
	v.	Wheel Diameter	953.00	953.00	952.00	952.00	953.00	953.00	952.50	952.50	
	vi.	Wheel Disc No.	36682-03757-SAIL	36481-04957-SAIL	13234-15888-SAIL	36595-03757-SAIL	37248-05404-SAIL	37295-05404-SAIL	14472-15866-SAIL	14415-15866-SAIL	
	vii	RB Nos	J0918	J0925	J0890	J0876	J0902	J0920	E0323	E0324	
	viii	RB Make	NBC		NBC		NBC		NBC		
	ix	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Brake Cylinder Make & No.			KOLLEY-1432, 1335, 1393, 2197			KOLLEY-1370, 2109, 1383, 1356			
	ii.	Secondary shock Absorber Make & NO.			IAI-256755, 256731			GABRIEL-1748, 1744			
	iii.	Lateral Shock Absorber Make & NO.			GABRIEL-0190, 0135			KBI-15983, 178078			
	iv.	Air Spring Make & NO.			SI-19-09-3343, 3340			SI-19-09-3265, 3349			
11.4	i.	Modification/Trail(if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMUT3PB - 2016



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ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2016 COUPLING TYPE : NONCBC	COACH_NO : 228124 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			HARTING CONN
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
			NIL
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
			NIL
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
			NIL
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
			NIL
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2104052 TO 2104054
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			I C ELECTRICALS-2204075/ 2204076/ 2204072/ 2204070
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
			025/2022 & 025/2022



आयात व निर्यात प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228124 DATE OF FITMENT: 31-JAN-23
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	2010	BOGIE NO	222111 / 222112	DISPATCH DATE	06-FEB-23	
2.	RAILWAY	ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228126	
3.	BOOKED TO	SSE/C&W/KUR					
4.	Tare Weight of Coach	39					
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	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN				
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK				
	3	COMPOSITE MODULAR TOILET	HINDUSTAN				
	4	LAVATORY DOORS	HINDUSTAN				
	5	SEAT & BEARTH	VIBGYOR				
	6	FLOOR BOARD	SRI RAM				
	7	UIC VESTIBULES	ELASTOMER				
	8	EP BRAK / BRAKE EQUIPMENT	KBI				
	9	BODY SIDE WINDOW	AIR FLOW				
	10	ROOF CEILING	M.V MOBILTY				
	11	ROLLING SHUTTER	DHINJAN				
	12	COMPACT DUSTBIN	HINDUSTAN				
	13	LUGGAGE RACK	RAIL TECH				
	14	LAVATORY WINDOW	NOT APPLICABLE				
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME				
	16	PARTITION FRAME	NOT TRACEABLE				
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
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	
			2010		ECOR		MEMUT3PB		228126		06-FEB-23	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: ICF/MRVC/C/BT-0-0-001 ALT e											
11.2	Wheel & Axle Details:											
	i.	Bogie No.	222111				222112					
	ii.	Frame No.	CRG-367				ECBT-370					
	iii.	Bolster No.	AVI-20				AVI-02					
	iv.	Axle No.	RWF - R4068		RWF - R4116		RWF - R3686		RWF - R3647			
	v.	Wheel Diameter	952.50	952.00	953.00	953.00	953.00	953.00	953.00	953.00		
	vi.	Wheel Disc No.	15866-14535-SAIL	17795-15931-SAIL	14414-1586-SAIL	17511-15777-SAIL	65682-11131-SAIL	50977-06932-SAIL	37058-05199-SAIL	37045-35199-SAIL		
	vii.	RB Nos	J0914	J0901	J0915	J0919	J0962	J0980	J0979	J0973		
	viii.	RB Make	NBC		NBC		NBC		NBC			
	ix.	RB Type	Direct Mounted Spherical Roller Bearing									
11.3	Items traceability:											
	i.	Brake Cylinder Make & No.			KOLLEY-1360,1364,2127,2202				KOLLEY-2179,2225,1417,2181			
	ii.	Secondary shock Absorber Make & NO.			IAI-256710,256751				KBI-14074,14087			
	iii.	Lateral Shock Absorber Make & NO.			KBI-16040,16052				KBI-15976,17810			
	iv.	Air Spring Make & NO.			SI-19-09-3342,3360				SI-19-09-3346,3356			
11.4	i.	Modification/Trail(if any):			NIL							
	ii.	Deviations (if any):			NIL							

MEMUT3PB - 2010



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



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2010 COUPLING TYPE : NONCBC	COACH_NO : 228126 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
HARTING INDIA			
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
NIL			
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
NIL			
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
NIL			
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
NIL			
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204053 TO 2204067			
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204094/ 2204083/ 2204086/ 2204089			
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
025/2022 & 026/2022			



आयात व निर्यात प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228126 DATE OF FITMENT: 31-JAN-23
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	2012	BOGIE NO	222115 / 222116	DISPATCH DATE	06-FEB-23	
2.	RAILWAY	ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228121	
3.	BOOKED TO	SSE/C&W/KUR					
4.	Tare Weight of Coach	39					
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)			FRONTIER	FRONTIER	
	viii)	Buffer Make					
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 36 Kg/cm2 of BC		Less than 05 Sec		
			Brake release time to reach 0.4 Kg/cm2		Less than 20 Sec		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm2 in 60 Sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm2 in 6 Sec		Brakes "ON"		
	7.4	Passenger alarm by pulling chain			BP Blasts out, Brakes "ON"		
	7.5	Piston stroke for BMBC type coach only			19 +10/-0 mm		
8.	Painting Details:						
			Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN				
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK				
	3	COMPOSITE MODULAR TOILET	HINDUSTAN				
	4	LAVATORY DOORS	HINDUSTAN				
	5	SEAT & BEARTH	SUKATA				
	6	FLOOR BOARD	SRI RAM				
	7	UIC VESTIBULES	ELASTOMER				
	8	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	9	BODY SIDE WINDOW	AIR FLOW				
	10	ROOF CEILING	M.V MOBILTY				
	11	ROLLING SHUTTER	DHINJAN				
	12	COMPACT DUSTBIN	HINDUSTAN				
	13	LUGGAGE RACK	RAIL TECH				
	14	LAVATORY WINDOW	NOT APPLICABLE				
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME				
	16	PARTITION FRAME	NOT TRACEABLE				
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



11.	Bogie Details:		Shell No.	Railway	Type	Coach No.		Dispatch Date		
			2012	ECOR	MEMUT3PB	228121	06-FEB-23			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: ICF/MRVC/C/BT-0-0-001 ALT e									
11.2	Wheel & Axle Details:									
	i.	Bogie No.	222115				222116			
	ii.	Frame No.	KE-85				ECBT-372			
	iii	Bolster No.	AVI-06				AVI-04			
	iv.	Axle No.	RWF - R3789		RWF - R4237		RWF - R3853		RWF - R3726	
	v.	Wheel Diameter	953.00	953.00	952.00	952.00	953.00	953.00	952.50	953.00
	vi.	Wheel Disc No.	37365-04051-SAIL	13227-15888-SAIL	37396-04051-SAIL	37412-04051-SAIL	67931-09395-SAIL	65641-11133-SAIL	37352-04051-SAIL	65630-11133-SAIL
	vii	RB Nos	J0984	J0985	J0997	J0893	J0898	J0912	J0911	J0899
	viii	RB Make	NBC		NBC		NBC		NBC	
	ix	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:									
	i.	Brake Cylinder Make & No.			KOLLEY-2183, 2108, 1338, 2128			FTI-1344, 1354, 2412, 2410		
	ii.	Secondary shock Absorber Make & NO.			IAI-256770, 256806			IAI-256707, 256688		
	iii.	Lateral Shock Absorber Make & NO.			GABRIEL-665, 682			KBI-17800, 16053		
	iv.	Air Spring Make & NO.			RESISTO-19-05-9923, 18-08-8866			RESISTO-19-05-9951, 18-08-8868		
11.4	i.	Modification/Trail(if any):			NIL					
	ii.	Deviations (if any):			NIL					

MEMUT3PB - 2012



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



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2012 COUPLING TYPE : NONCBC	COACH_NO : 228121 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
HARTING INDIA			
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
NIL			
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
NIL			
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
NIL			
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
NIL			
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204015 TO 2204103			
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204069/ 2204074/ 2204078/ 2204064			
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
025/2022 & 0261/2022			



आयात व निर्यात प्रमाणपत्र
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (NON-LHB)

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228121 DATE OF FITMENT: 31-JAN-23
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	2018	BOGIE NO	222193 / 222194	DISPATCH DATE	06-FEB-23	
2.	RAILWAY	ECOR	TYPE OF COACH	MEMUT3PB	COACH NO	228125	
3.	BOOKED TO	SSE/C&W/KUR					
4.	Tare Weight of Coach	39					
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)			FRONTIER	FRONTIER	
	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	83 / 83	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	BIO-TOILET	SVARN INFRATEL, NOT APPLICABLE, SVARN IN				
	2	WATER TANKS	SHIVALIK, SHIVALIK, SHIVALIK, SHIVALIK				
	3	COMPOSITE MODULAR TOILET	HINDUSTAN				
	4	LAVATORY DOORS	HINDUSTAN				
	5	SEAT & BEARTH	SUKATA				
	6	FLOOR BOARD	SRI RAM				
	7	UIC VESTIBULES	KRP				
	8	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	9	BODY SIDE WINDOW	AIR FLOW				
	10	ROOF CEILING	OMEGA				
	11	ROLLING SHUTTER	DHINJAN				
	12	COMPACT DUSTBIN	HINDUSTAN				
	13	LUGGAGE RACK	RAIL TECH				
	14	LAVATORY WINDOW	NOT APPLICABLE				
	15	PARTITION FRAME TYPE	SS TUBULAR FRAME				
	16	PARTITION FRAME	NOT TRACEABLE				
	17	PILLAR ASSLY LONGI SIDE	NOT APPLICABLE				
	18	PILLAR ASSLY TRANSVERSE	NOT APPLICABLE				
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



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		
			2018	ECOR	MEMUT3PB		228125		06-FEB-23		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: ICF/MRVC/C/BT-0-0-001 ALT e										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	222193				222194				
	ii.	Frame No.	KE-84				ECBT-387				
	iii	Bolster No.	RSM-58				RSM-29				
	iv.	Axle No.	RWF - P3421		RWF - P3964		RWF - V35400		RWF - R4604		
	v.	Wheel Diameter	953.00	953.00	953.00	952.50	953.00	953.00	953.00	953.00	
	vi.	Wheel Disc No.	15107-964-RWF	47728-958-RWF	47760-926-RWF	47818-913-RWF	47723-927-RWF	47892-910-RWF	F5173-923-RWF	47714-910-RWF	
	vii	RB Nos	E0266	E0263	E0264	E0238	E0200	E0187	E0169	E0216	
	viii	RB Make	NBC		NBC		NBC		NBC		
	ix	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Brake Cylinder Make & No.			KOLLEY-1305,1280,1264,1246			KOLLEY-1248,1290,1250,1241			
	ii.	Secondary shock Absorber Make & NO.			IAI-256708,256685			IAI-256760,256774			
	iii.	Lateral Shock Absorber Make & NO.			KBI-16649,16645			KBI-16671,16681			
	iv.	Air Spring Make & NO.			SI-19-09-3272,3288			SI-19-12-3493,3494			
11.4	i.	Modification/Trail(if any):			CAST WHEEL USED AS PER LETTER MD23131 DT 23.07.22						
	ii.	Deviations (if any):			NIL						

MEMUT3PB - 2018



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



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0	
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH			
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR		Shell No : 2018 COUPLING TYPE : NONCBC	COACH_NO : 228125 DATE OF FITMENT: 31-JAN-23
S.No	PL No & Item Description	Drawing No	Make
Item Sr.No.(if any)			
Group Name NO GROUP DEFINED			
1	45985017-17, IVC COUPLER AND JUMPER CABLE	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
HARTING INDIA			
Group Name UNDER FRAME			
2	42027380-0, LIMIT SWITCH 10A,500V,1NO+1NCAS PER DRAWING/SPEC. 3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPRO	3SE3-100-OE OF M/S SIEMENS OR EQUIVALANT RCF APPROVED MAKE .	BOHMIN
NIL			
Group Name COMPARTMENT			
3	33642606-0, SWITCH PLATE ASSEMBLY ALONG WITH MOBILE CHARGING SOCKET FOR LHB EOG NON AC COACHES as per Drg.No. ED	EDML086,REV-8, TABLE-3	SALZER
NIL			
4	45906350-0, LED LIGHT FITTING FOR MEMU (DMC/TC) TYPE COACHES (18 WATT) as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0 091-2016,REV-1 AS PER DRG CC76460, TYPE-"T" (18 WATT), RCF, ANNEX-1	ENSAVE
NIL			
5	45982752-0, RLY CARRIAGE FAN ,450 MM SWEEP ,FIXED TYPE 140V,AC WITH FAN GUARD TO DRG NO ICF/SK3-7-6-026, ALT-B,C	RDSO/PE/SPEC/TL/0 050(2010,REV-1)	SARIA INDUSTRIES CORPORATION
NIL			
6	45985017-8, AMPLIFIER	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204096 TO 2204077			
7	45985017-10, DISPLAY LIDS	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
I C ELECTRICALS-2204071/ 2204077/ 2204073/ 2204067			
8	45985017-30, END-WALL PANNEL-1 AND 2	RDSO/PE/SPEC/EMU //0163(REV-1)-2012 WITH ADDENDUM 1&2,WITH RCF ANNEXURE-1.	BHARAT HEAVY ELECTRICAL LTD.
026/2022 & 026/2022			



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

FOR ELECTRICAL ITEMS		QEF 0650 VER 1.0
ROLLING STOCK CERTIFICATE OF THREE PHASE ELECTRICS NON-AC MEMUT COACH		
TYPE OF COACH : MEMUT3PB RAILWAY : ECOR	COUPLING TYPE : NONCBC	COACH_NO : 228125 DATE OF FITMENT: 31-JAN-23
SSE/EL/QC	AME/WM QC/DY CQM I	