



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

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

1.	SHELL No:	7005	DISPATCH DATE:				31.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150013	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :	JLS				
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:	SANROK				
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm ² of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm ²		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² n 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 (NAC)			
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/85		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			KBI		
	ii.	SEAT & BERTH			OVPL		
	lii	PVC			RESPONSIVE		
	lv	FLOOR BOARD			TWPL		
	v	UIC VESTIBULE			KRP		
	Viv	LP SHEETS			PUNJAB LAMINATE		
	Vii	BODY SIDE WINDOW			AGF		
	Viii	EMERGENCY WINDOW			AGF		
	xi	DOOR WINDOW			AGF		
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175065066

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
				MEMU					
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"								
11.2	Wheel & Axle Details:								
i.	Bogie No.	175065			175066				
ii.	Frame No.	ECBT-05			ECBT-06				
iii.	Axle No.	S-2797		G-7230	G-7189	V-4811			
iv.	Wheel Diameter	953.50	953.50	953.50	953.00	954.50	954.50	953.50	953.00
v.	Wheel Disc No.	20889-00185	59171-08318	01407-12623	02432-12893	51685-07344	02786-12987	11786-15097	12893-02427
vi.	RB Nos	Q0272	Q0325	Q0220	Q0316	Q0274	R0591	Q0160	Q0195
vii.	RB Make	FAG		FAG		FAG		FAG	
viii.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:								
i.	Break Cylinder Make & No.	PEW-K330, K229, K312, K315			PEW-K14260, K311, K335, K228				
ii.	Secondary shock Absorber Make & NO.	KNORR-8693, 8595			GABRIEL-1439, 1395				
11.4	i.	Modification/Trail (if any):		NIL					
	ii.	Deviations (if any):		NIL					

MEMU/DMC—7005



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

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

1.	SHELL No:	7006	DISPATCH DATE:				30.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150012	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :	HEPL				
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:	SANROK				
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm ² of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm ²		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm ² n 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 (NAC)			
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/85		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			KBI		
	ii.	SEAT & BERTH			OVPL		
	lii	PVC			RESPONSIVE		
	lv	FLOOR BOARD			TWPL		
	v	UIC VESTIBULE			KRP		
	Viv	LP SHEETS			PUNJAB LAMINATE		
	Vii	BODY SIDE WINDOW			AGF		
	Viii	EMERGENCY WINDOW			AGF		
	xi	DOOR WINDOW			AGF		
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175067068

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
				MEMUMC					
11.1	Bogie GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"								
11.2	Wheel & Axle Details:								
i.	Bogie No.	175067			175068				
ii.	Frame No.	ECBT-08			ECBT-13				
iii.	Axle No.	M-0129		K-2500	M-0461	M-0554			
iv.	Wheel Diameter	953.00	953.00	954.00	953.50	953.00	953.50	953.50	953.50
v.	Wheel Disc No.	57462-12038	57429-12038	46998-4004K	13124-02885	41213-08548	4004K-47038	41148-08548	51447-07250
vi.	RB Nos	Q0431	Q0418	Q0454	Q0450	Q0414	Q0420	Q0423	Q0407
vii.	RB Make	FAG		FAG		FAG		FAG	
viii.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:								
i.	Break Cylinder Make & No.	PEW-K340,04117,K359,K338			PEW-K322,K302,K14251,K329				
ii.	Secondary shock Absorber Make & NO.	IAI-124386,124416			GABRIEL-1430,1397				
11.4	i.	Modification/Trail(if any):		NIL					
	ii.	Deviations (if any):		NIL					



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	7008	DISPATCH DATE:				19.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150011	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :	HEPL				
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:	SANROK				
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"		
	7.4	Passenger alarm by pulling chain			BP Blasts out, Brakes "ON"		
	7.5	Piston stroke for BMBC type coach only			19 +10/-0 mm (NAC)		
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/85		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT		ESCORT			
	ii.	SEAT & BERTH		OVPL			
	lii	PVC		RESPONSIVE			
	Iv	FLOOR BOARD		TWPL			
	V	UIC VESTIBULE		ELASTOMER			
	Viv	LP SHEETS		PUNJAB LAMINATE			
	Vii	BODY SIDE WINDOW		AGF			
	Viii	EMERGENCY WINDOW		AGF			
	xi	DOOR WINDOW		AGF			
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175063064

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		7008	SWR	MEMUMC	150011/C	19-AUG-17
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"					
11.2	Wheel & Axle Details:					
i.	Bogie No.	175063			175064	
ii.	Frame No.	ECBT-09			ECBT-11	
iii.	Axle No.	K-2094		M-0559	V-4746	S-2548
iv.	Wheel Diameter	953.00	953.00	953.50	953.00	953.50
v.	Wheel Disc No.	02746-12987	22339-923	40512-08047	41199-08548	59729-08561
vi.	RB Nos	Q0314	Q0224	Q0456	Q0457	Q0446
vii.	RB Make	FAG		FAG	FAG	FAG
viii.	RB Type	Direct Mounted Spherical Roller Bearing				
11.3	Items traceability:					
i.	Break Cylinder Make & No.	PEW- E5154, E5227, E5237, E5324			PEW- E5211, E5214, E5333, E5266	
ii.	Secondary shock Absorber Make & NO.	IAI-124404, 124393			GABRIEL-1420, 1431	
11.4	i.	Modification/Trail (if any):		NIL		
	ii.	Deviations (if any):		NIL		

MEMU/DMC—7008



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

ROLLING STOCK CERTIFICATEForm No. : **QMF4254; Version: 05**

1.	SHELL No:	7010	DISPATCH DATE:				10.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150008	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1	Leading Dimensions;					
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :	HEPL				
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:	SANROK,ESCORT				
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"		
	7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"			
	7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)			
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/85		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT		KBI			
	ii.	SEAT & BERTH		OVPL			
	lii	PVC		RESPONSIVE			
	Iv	FLOOR BOARD		SRI RAM			
	V	UIC VESTIBULE		KRP			
	Viv	LP SHEETS		PUNJAB LAMINATE			
	Vii	BODY SIDE WINDOW		AGF			
	Viii	EMERGENCY WINDOW		AGF			
	xi	DOOR WINDOW		AGF			
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175059060

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.		Dispatch Date		
		7010	SWR		MEMUMC	150008		10-AUG-17		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	175059					175060			
ii.	Frame No.	ECBT-07					ECBT-012			
iii.	Axle No.	V-4816		M-0549		K-2316		C-6514		
iv.	Wheel Diameter	954.00	954.00	954.50	954.50	954.00	954.00	954.50	954.50	
v.	Wheel Disc No.	08316-59253	55306-08077	51672-07344	08318-59242	57499-12038	12987-02777	02791-12987	57412-12038	
vi.	RB Nos	Q0178	Q0143	R0610	Q0265	Q0174	X0532	Q0256	R0605	
vii.	RB Make	FAG		FAG		FAG		FAG		
viii.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.	PEW-K293, K14242, K291, K14286				PEW-K14265, K14262, K14267, K351				
ii.	Secondary shock Absorber Make & NO.	ESCORTS-3165, 3117				ESCORTS-3149, 3145				
11.4	i.	Modification/Trail (if any):		NIL						
	ii.	Deviations (if any):		NIL						

MEMU/DMC—7010



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	7009	DISPATCH DATE:				10.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150009	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1 Leading Dimensions;						
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :				HEPL	
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:				SANROK	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"		
	7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"			
	7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)			
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	85/85		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			KBI		
	ii.	SEAT & BERTH			OVPL		
	lii	PVC			RESPONSIVE		
	lv	FLOOR BOARD			TWPL		
	v	UIC VESTIBULE			KRP		
	Viv	LP SHEETS			-		
	Vii	BODY SIDE WINDOW			AGF		
	Viii	EMERGENCY WINDOW			AGF		
	xi	DOOR WINDOW			AGF		
10.	10.1	Modification/ Trial (if any):			NIL		
	10.2	Deviations (if any):			NIL		



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175057058

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.		Dispatch Date		
		7009	SWR		MEMUMC	150009		10-AUG-17		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
	i.	Bogie No.	175057				175058			
	ii.	Frame No.	ECBT-03				ECBT-02			
	iii.	Axle No.	L-9898		M-0024		M-0207		G-7214	
	iv.	Wheel Diameter	954.00	954.00	953.00	953.00	954.50	955.00	953.50	953.50
	v.	Wheel Disc No.	51635-07344	58226-09673	55229-08077	13124-02913	02750-12987	02262-12831	50948-06937	59239-08318
	vi.	RB Nos	Q0197	Q0209	Q0141	Q0292	Q0246	R0588	Q0264	Q0263
	vii.	RB Make	FAG		FAG		FAG		FAG	
	viii.	RB Type	Direct Mounted Spherical Roller Bearing							
11.3	Items traceability:									
	i.	Break Cylinder Make & No.	PEW-K14278, K14351, K14245, K14271				PEW-K14255, K14254, K14311, K14288			
	ii.	Secondary shock Absorber Make & NO.	ESCORTS-3187, 3173				ESCORTS-3133, 3193			
11.4	i.	Modification/Trail(if any):	NIL							
	ii.	Deviations (if any):	NIL							

MEMU/DMC—7009



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

1.	SHELL No:	7011	DISPATCH DATE:				19.08.17
2.	Rly:	SW	Type:	MEMU/MC	Coach No.:	150010	
3.	Booked to	SSE/C&W/SBC					
4.	Tare Weight of Coach :	61 T					
5.	Carrying Capacity :	Seating:	65	Standing	138	Luggage:	NIL
6.	Shell Details: (SG-90004 alt 'b')						
	6.1 Leading Dimensions;						
	i)	Maximum height above rail to top of Roof ventilator				4100 ± 5 (for NAC) 4250 +0/-5 (for WGACCN only)	
	ii)	Maximum length over Body				21337 ± 10	
	iii)	Maximum length over Buffer				22297 ± 15	
	iv)	Maximum width over Body				3245 ± 5	
	v)	Maximum width over Flasher light				3402 +0/-5	
	vi)	Minimum height above rail level to the lowest fitting				181.5 (AE63143) mm	
	vii)	Buffer/CBC Height	Specified : 1104 +0 /-10 mm		i) 1104	ii) 1104	
	vii)	Make :				HEPL	
	ix)	Shaku Coupler Height	Specified : 1035 +0 /-5 mm		1035		
	x)	Shaku Coupler Make:				SANROK	
7.	Air Brake Testing:						
	Description				Specified		
	7.1	Emergency Application	Time for 0 to 3.6 Kg/cm2 of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm2		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
	7.2	Insensitivity	BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application		
	7.3	Sensitivity	BP dipped @ 0.60 Kg/cm2 in 6 sec		Brakes "ON"		
	7.4	Passenger alarm by pulling chain		BP Blasts out, Brakes "ON"			
	7.5	Piston stroke for BMBC type coach only		19 +10/-0 mm (NAC)			
8.	PAINTING DEATAILS:						
			TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/85		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT		KBI			
	ii.	SEAT & BERTH		OVPL			
	lii	PVC		RESPONSIVE			
	lv	FLOOR BOARD		SRIRAM/OVPL			
	v	UIC VESTIBULE		KRP			
	Viv	LP SHEETS		-			
	Vii	BODY SIDE WINDOW		AGF			
	Viii	EMERGENCY WINDOW		AGF			
	xi	DOOR WINDOW		AGF			
10.	10.1	Modification/ Trial (if any):		NIL			
	10.2	Deviations (if any):		NIL			



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 175061062

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date	
			7011	SWR	MEMUMC	150010	19-AUG-17	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"							
11.2	Wheel & Axle Details:							
i.	Bogie No.	175061				175062		
ii.	Frame No.	ECBT-14				ECBT-10		
iii.	Axle No.	J-5238		M-0205		K-1810		M-0334
iv.	Wheel Diameter	954.00	954.00	954.00	954.00	953.50	953.50	953.00 953.00
v.	Wheel Disc No.	12215-15324	11790-15097	08077-55302	08077-55287	41150-08548	40532-08047	47852-06936 22339-937
vi.	RB Nos	Q0202	Q0194	Q0212	Q0158	Q0462	Q0451	Q0259 Q0250
vii.	RB Make	FAG		FAG		FAG		FAG
viii.	RB Type	Direct Mounted Spherical Roller Bearing						
11.3	Items traceability:							
i.	Break Cylinder Make & No.			PEW-K326, K349, K14240, K386		PEW-K348, K321, K309, K342		
ii.	Secondary shock Absorber Make & NO.			ESCORTS-18686, 3345		GABRIEL-1317, 1361		
11.4	i. Modification/Trail (if any):			NIL				
	ii. Deviations (if any):			NIL				

MEMUMC-7011



रोलिंग स्टॉक प्रमाण-पत्र ROLLING STOCK CERTIFICATE

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

1.	शैल सं. SHELL No: 7030 डिस्पैच तिथि			DISPATCH DATE:		03.08.2017
2.	रेलवे Rly:	WR	टाइप Type:	MEMU/TC2	कोच सं. Coach No.:	151040
3.	को बुक किया गया Booked to SSE/C&W/SBC					
4.	खाली कोच का भार Tare Weight of Coach : 33.15 T					
5.	वहन क्षमता Carrying Capacity : सीटें Seating: 80 खड़े Standing 272 सामान Luggage: NIL					
6.	Shell Details: (SG-90004 alt 'b')					
	6.1 प्रमुख आयाम Leading Dimensions;					
	i) रेल से रूफ वेंटीलेटर के टॉप तक अधिकतम ऊंचाई Maximum height above rail to top of Roof ventilator					
	ii) बॉडी की अधिकतम लंबाई Maximum length over Body					
	iii) बफर की अधिकतम लंबाई Maximum length over Buffer					
	iv) बॉडी की अधिकतम चौड़ाई Maximum width over Body					
	v) फ्लैशर लाइट की अधि. ऊंचाई Maximum width over Flasher light					
	vi) सबसे निचली फिटिंग से रेल लेवल की न्यूनतम ऊंचाई Minimum height above rail level to the lowest fitting					
	vii) बफर Buffer/CBC Height		बफर Buffer/CBC Height		1035	1035
	viii) मेक Make :		ESCORTS			
	ix) शकु कपलर की ऊंचाई Shaku Coupler Height		Specified : 1035 +0 /-5 mm			
	x) शकु कपलर मेक Shaku Coupler Make:					
7.	Air Brake Testing:					
	Description			Specified		
	7.1 आपातकाल एप्लीकेशन Emergency Application		Time for 0 to 3.6 Kg/cm ² of BC		Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)	
			Brake release time to reach .4 Kg/cm ²		Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)	
	7.2 तीव्रता Insensitivity BP dipped @ 0.30 Kg/cm ² n 60 sec		No brake application			
	7.3 संवेदनशीलता Sensitivity BP dipped @ 0.60 Kg/cm ² in 6sec		Brakes "ON"			
	7.4 चेन खींचने पर यात्री अलार्म Passenger alarm by pulling chain					
	7.5 पिस्टन स्ट्रोक Piston stroke for BMBC type coach only					
8.	पेंट का विवरण PAINTING DEATAILS:					
	TYPE OF PAINT		मेक MAKE		AVERAGE GLOSS VALUE	
	8.1	पेंट PAINT पीयू पेंट PU PAINT	GS		85/85	
	8.2	पीसीएन- 123 एप्लीकेशन APPLICATION OF PCN-123				
	8.3	इंसुलेशन INSUALTION				
9.	फर्निशिंग मदों की जानकारी Traceability of Furnishing Items:			Make		
	i.	ब्रेक उपकरण BRAKE EQUIPMENT	KBI			
	ii.	सीट एंड बर्थ SEAT & BERTH	OVPL			
	iii	पीवीसी PVC	RESPONSIVE			
	iv	फ्लोर बोर्ड FLOOR BOARD	TWPL			
	v	यूआईसी वेस्टीब्युल UIC VESTIBULE	KRP			
	Vi	एलपी शीट LP SHEETS				
	Vii	बॉडी साइड विंडो BODY SIDE WINDOW	GI			
	Viii	आपातकाल खिड़की EMERGENCY WINDOW	GI			
	Xi	डोर विंडो DOOR WINDOW	AGF			
	X	वाटर टैंक WATER TANK	RUBICONE			
	Xi	लैव विंडो LAV WINDOW	MECIDONE			
	xii	लैव LAV DOOR	GANDHI			
		BIO TOILET	OMEX			
10.	10.1	मॉडीफिकेशन/ट्रायल यदि हो Modification/ Trial (if any):				
	10.2	डेविएशन (यदि हो) Deviations (if any):				



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 174191195

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.		Dispatch Date			
		7030	SWR		MEMUTC	151040		03-AUG-17			
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
	i.	Bogie No.	174191				174195				
	ii.	Frame No.	ASR-494				ASR-497				
	iii.	Axle No.	V-2636		V-6673		1640		1733		
	iv.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
	v.	Wheel Disc No.	11792-15097	11772-15097	11672-15074	15035-11589	14933-11979	61847-10551	59068-08282	20641-16949	
	vi.	RB Nos	E2032	E2021	E2011	E2000	E2281	E2279	E2269	E2282	
	vii.	RB Make	NBC		NBC		NBC		NBC		
	viii.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:										
	i.	Break Cylinder Make & No.			PEW-K277,K252			PEW-K232,K248			
	ii.	Secondary shock Absorber Make & NO.			GABRIEL-9198,9252			KNORR-19002,19051			
11.4	i.	Modification/Trail (if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMU/TC2—7030



रोलिंग स्टॉक प्रमाण-पत्र ROLLING STOCK CERTIFICATE

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

1.	शैल सं. SHELL No: 7036 डिस्पैच तिथि			DISPATCH DATE:		03.08.2017
2.	रेलवे Rly:	WR	टाइप Type:	MEMU/TC2	कोच सं. Coach No.:	151041
3.	को बुक किया गया Booked to SSE/C&W/SBC					
4.	खाली कोच का भार Tare Weight of Coach : 33.15 T					
5.	वहन क्षमता Carrying Capacity : सीटें Seating: 80 खड़े Standing 272 सामान Luggage: NIL					
6.	Shell Details: (SG-90004 alt 'b')					
6.1	प्रमुख आयाम Leading Dimensions;					
i)	रेल से रूफ वेंटीलेटर के टॉप तक अधिकतम ऊंचाई Maximum height above rail to top of Roof ventilator					
ii)	बॉडी की अधिकतम लंबाई Maximum length over Body					
iii)	बफर की अधिकतम लंबाई Maximum length over Buffer					
iv)	बॉडी की अधिकतम चौड़ाई Maximum width over Body					
v)	फ्लैशर लाइट की अधि. ऊंचाई Maximum width over Flasher light					
vi)	सबसे निचली फिटिंग से रेल लेवल की न्यूनतम ऊंचाई Minimum height above rail level to the lowest fitting					
vii)	बफर Buffer/CBC Height		बफर Buffer/CBC Height	1035	1035	
viii)	मेक Make :			ESCORTS		
ix)	शकु कपलर की ऊंचाई Shaku Coupler Height			Specified : 1035 +0 /-5 mm		
x)	शकु कपलर मेक Shaku Coupler Make:			ESCORT		
7.	Air Brake Testing:					
	Description			Specified		
7.1	आपातकाल एप्लीकेशन Emergency Application		Time for 0 to 3.6 Kg/cm ² of BC	Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm ²	Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
7.2	संवेदनशीलता Insensitivity BP dipped @ 0.30 Kg/cm ² n 60 sec			No brake application		
7.3	संवेदनशीलता Sensitivity BP dipped @ 0.60 Kg/cm ² in 6sec			Brakes "ON"		
7.4	चेन खींचने पर यात्री अलार्म Passenger alarm by pulling chain					
7.5	पिस्टन स्ट्रोक Piston stroke for BMBC type coach only					
8.	पेंट का विवरण PAINTING DEATAILS:					
	TYPE OF PAINT		मेक MAKE	AVERAGE GLOSS VALUE		
8.1	पेंट PAINT पीयू पेंट PU PAINT		GS	85/85		
8.2	पीसीएन- 123 एप्लीकेशन APPLICATION OF PCN-123					
8.3	इंसुलेशन INSUALTION					
9.	फर्निशिंग मदों की जानकारी Traceability of Furnishing Items:			Make		
i.	ब्रेक उपकरण BRAKE EQUIPMENT			KBI		
ii.	सीट एंड बर्थ SEAT & BERTH			OVPL		
iii	पीवीसी PVC			RESPONSIVE		
Iv	फ्लोर बोर्ड FLOOR BOARD			TWPL		
V	यूआईसी वेस्टीब्युल UIC VESTIBULE			KRP		
Vi	एलपी शीट LP SHEETS			PL		
Vii	बॉडी साइड विंडो BODY SIDE WINDOW			GI		
Viii	आपातकाल खिड़की EMERGENCY WINDOW			GI		
Xi	डोर विंडो DOOR WINDOW			AGF		
X	वाटर टैंक WATER TANK			RUBICONE/RAIL FAB		
Xi	लैव विंडो LAV WINDOW			MECIDONE		
xii	लैव LAV DOOR			GANDHI		
	BIO TOILET			OMEX		
10.	10.1 मॉडिफिकेशन/ट्रायल यदि हो Modification/ Trial (if any):					
	10.2 डेविएशन (यदि हो) Deviations (if any):					



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 174196197

11.	Bogie Details:	Shell No.	Railway		Type		Coach No.		Dispatch Date		
		7036	SWR		MEMUTC		151041		03-AUG-17		
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"										
11.2	Wheel & Axle Details:										
i.	Bogie No.	174196					174197				
ii.	Frame No.	ASR-502					ASR-500				
iii.	Axle No.	6144		S-8361		M-7960		V-6697			
iv.	Wheel Diameter	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	954.00	
v.	Wheel Disc No.	22337-917	22217-941	22185-956	22135-937	22326-920	22198-937	22312-949	22286-951		
vi.	RB Nos	E1949	E1992	J1782	E1994	J1775	E1957	E1948	E1947		
vii.	RB Make	NBC		NBC		NBC		NBC			
viii.	RB Type	Direct Mounted Spherical Roller Bearing									
11.3	Items traceability:										
i.	Break Cylinder Make & No.	PEW-K271, K234				PEW-K257, K270					
ii.	Secondary shock Absorber Make & NO.	GABRIEL-9224, 8735				GABRIEL-9203, 9223					
11.4	i.	Modification/Trail (if any):			NIL						
	ii.	Deviations (if any):			NIL						

MEMU/TC2—7036



रोलिंग स्टॉक प्रमाण-पत्र ROLLING STOCK CERTIFICATE

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

1.	शैल सं. SHELL No: 7029 डिस्पैच तिथि			DISPATCH DATE:		03.08.2017
2.	रेलवे Rly:	WR	टाइप Type:	MEMU/TC2	कोच सं. Coach No.:	151039
3.	को बुक किया गया Booked to SSE/C&W/SBC					
4.	खाली कोच का भार Tare Weight of Coach : 33.15 T					
5.	वहन क्षमता Carrying Capacity : सीटें Seating: 80 खड़े Standing 272 सामान Luggage: NIL					
6.	Shell Details: (SG-90004 alt 'b')					
6.1	प्रमुख आयाम Leading Dimensions;					
i)	रेल से रूफ वेंटीलेटर के टॉप तक अधिकतम ऊंचाई Maximum height above rail to top of Roof ventilator					
ii)	बॉडी की अधिकतम लंबाई Maximum length over Body					
iii)	बफर की अधिकतम लंबाई Maximum length over Buffer					
iv)	बॉडी की अधिकतम चौड़ाई Maximum width over Body					
v)	फ्लैशर लाइट की अधि. ऊंचाई Maximum width over Flasher light					
vi)	सबसे निचली फिटिंग से रेल लेवल की न्यूनतम ऊंचाई Minimum height above rail level to the lowest fitting					
vii)	बफर Buffer/CBC Height		बफर Buffer/CBC Height	1035	1035	
viii)	मेक Make :			ESCORTS		
ix)	शकु कपलर की ऊंचाई Shaku Coupler Height			Specified : 1035 +0 /-5 mm		
x)	शकु कपलर मेक Shaku Coupler Make:					
7.	Air Brake Testing:					
	Description			Specified		
7.1	आपातकाल एप्लीकेशन Emergency Application		Time for 0 to 3.6 Kg/cm ² of BC	Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type)		
			Brake release time to reach .4 Kg/cm ²	Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type)		
7.2	तीव्रता Insensitivity BP dipped @ 0.30 Kg/cm ² n 60 sec			No brake application		
7.3	संवेदनशीलता Sensitivity BP dipped @ 0.60 Kg/cm ² in 6sec			Brakes "ON"		
7.4	चेन खींचने पर यात्री अलार्म Passenger alarm by pulling chain					
7.5	पिस्टन स्ट्रोक Piston stroke for BMBC type coach only					
8.	पेंट का विवरण PAINTING DEATAILS:					
	TYPE OF PAINT		मेक MAKE	AVERAGE GLOSS VALUE		
8.1	पेंट PAINT पीयू पेंट PU PAINT		VIB	85/85		
8.2	पीसीएन- 123 एप्लीकेशन APPLICATION OF PCN-123					
8.3	इंसुलेशन INSUALTION					
9.	फर्निशिंग मदों की जानकारी Traceability of Furnishing Items:			Make		
i.	ब्रेक उपकरण BRAKE EQUIPMENT			KBI		
ii.	सीट एंड बर्थ SEAT & BERTH			OVPL		
iii	पीवीसी PVC			RESPONSIVE		
Iv	फ्लोर बोर्ड FLOOR BOARD			TWPL		
V	यूआईसी वेस्टीब्युल UIC VESTIBULE			KRP		
Vi	एलपी शीट LP SHEETS			PL		
Vii	बॉडी साइड विंडो BODY SIDE WINDOW			GI		
Viii	आपातकाल खिड़की EMERGENCY WINDOW			GI		
Xi	डोर विंडो DOOR WINDOW			AGF		
X	वाटर टैंक WATER TANK			RUBICONE		
Xi	लैव विंडो LAV WINDOW			MECIDONE		
xii	लैव LAV DOOR			GANDHI		
	BIO TOILET			OMEX		
10.	10.1 मॉडीफिकेशन/ट्रायल यदि हो Modification/ Trial (if any):					
	10.2 डेविएशन (यदि हो) Deviations (if any):					



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 174193194

11.	Bogie Details:	Shell No.	Railway		Type		Coach No.		Dispatch Date	
		7029	SWR		MEMUTC		151039		03-AUG-17	
11.1	BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt "a"									
11.2	Wheel & Axle Details:									
i.	Bogie No.	174193				174194				
ii.	Frame No.	ASR-501				ASR-503				
iii.	Axle No.	M-7627		3552		K-6880		V-3169		
iv.	Wheel Diameter	954.00	954.00	954.00	954.00	955.00	955.00	955.00	955.00	
v.	Wheel Disc No.	22103-903	22330-918	22337-910	22204-910	22093-951	20887-00185	22229-954	47514-00978	
vi.	RB Nos	E1977	E1946	E1976	E1986	E1860	E1854	E1884	E1855	
vii.	RB Make	NBC		NBC		NBC		NBC		
viii.	RB Type	Direct Mounted Spherical Roller Bearing								
11.3	Items traceability:									
i.	Break Cylinder Make & No.			PEW-K244,K256			PEW-K249,K275			
ii.	Secondary shock Absorber Make & NO.			GABRIEL-8962,9870			GABRIEL-9097,9109			
11.4	i. Modification/Trail (if any):			NIL						
	ii. Deviations (if any):			NIL						

MEMU/TC2—7029



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	7011	DISPATCH DATE				16.08.17
2.	Railway	SW	Type	LWCBAC	Coach No.		17801
3.	Booked to		SSE/C&W/SBC				
4.	Tare Weight of Coach		40.9 T				
5.	Carrying Capacity	Seating	NIL	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1104		1104
	v)	Buffer/CBC (Make)	SANROK		Fiba Device		NIL
7.	Air Brake Testing:		Description		Specified		Observed
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec		6 Sec
			Max Pressure in BC		3.80 ± 0.15 Kg/cm ²		3.80
			All Brake are applied		OK		OK
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application		OK
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply		OK
8.	PAINTING DEATAILS:		TYPE OF PAINT		MAKE		AVERAGE GLOSS VALUE
	8.1	PAINT	PU PAINT		VIBGYOR		85/87
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
	i.	BRAKE EQUIPMENT				FAVELLY	
	ii.	BIO TOILET				RAIL FAB	
	iii.	SEATS/ BERTHS				AMIR CHAND	
	iv.	BODY SIDE DOOR				JBM	
	v.	VESTIBULE SLIDING DOOR				KALSI	
	vi.	COMPARTMENT DOOR				RAIL TECH	
	vii.	WATER TANKS				RAIL TECH(AUX) & SHIVALIK,RAIL TECH(US)	
	viii.	UIC VESTIBULE				SSIPL	
	ix	FLOOR BOARD				TWPL	
	X	PVC				RESPONSIVE	
	Xi	LP SHEET				HINOSTAN	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना
RAIL COACH FACTORY, KAPURTHALA

Bogie Pair ID: 176452453

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			7011		SMR		LWCBAC		17801/C		16-AUG-17	
11.1 Wheel & Axle Details:												
i.	Bogie No.	176452						176453				
ii.	Frame No.	FIAT-5685						FIAT-5689				
iii.	Bolster No.	GT-6941						GT-6942				
iv.	Axle No.	W-3236			W-3172			W-2927			R-2901	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side	Earthing end side	Phonic wheel side	Phonic wheel side	Plane side			
vi.	Wheel Dia.	917.00	916.50	916.00	916.50	916.00	916.00	917.50	917.00			
vii.	Wheel Disc No.	00093-6223	00102-6185	00077-6214	00076-6214	00176-6105	00026-6180	00056-6129	00077-6196			
viii.	RB Nos.	08779	09096	02127	01933	08389	02160	03189	02904			
ix.	RB Make	TIMKEN			TIMKEN			TIMKEN			TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING										
11.2 Secondary suspension load deflection Values:												
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & Nos.	FSK-17-01-047	GBD-16-12-042	FSK-17-01-127	GBD-16-12-138	FSK-17-01-134	GBD-16-12-148	FSK-17-01-057	GBD-16-12-137			
ii.	Ht. at test load	507.00	468.00	507.00	467.00	512.00	468.00	512.00	468.00			
iii.	Align. deviation	7.00	7.00	8.00	7.00	10.00	7.00	12.00	9.00			
Items traceability:												
11.3												
Sno.	Item							Make				
i.	Primary Outer Spring	FSK-17-01			FSK-17-01			FSK				
ii.	Primary inner Spring	GF-12-06			GF-12-06			GF				
iii.	Primary Damper	37318, 37177, 36958, 37198			37129, 36964, 36954, 37300			KONI				
iv.	Secondary Damper	0831, 0834			0838, 0860			KNORR				
v.	Lateral Damper	0261			0228			SV				
vi.	Break cylinder & Caliper	16094, 16018, 16096, 16016			16223, 16107, 16105, 16110			FTI				
vii.	Break Disc							FTI				
viii.	Control arm top							KUMAR				
ix.	Control arm bottom							KUMAR				
x.	Top rubber pad							SCA				
xi.	Vertical Bump Stop							GMT				
xii.	Ball Joint Control arm							MCN				
xiii.	Lateral Bump stop							MCN				
xiv.	Traction center make							EMSON				
xv.	Traction lever make							SARITA		APW		
xvi.	Ball joint traction lever							MCN				
xvii.	Traction center elastic							GMT				
xviii.	Secondary rubber pad							TECSPAK				
xix.	Rubber spring							FRAG				
xx.	Anti roll bar make							SARITA				
xxi.	Ball joint roll link							SARITA				
xxii.	Fork make							SARITA				
11.4												
i.	Modification/Trail (if any):	NIL										
ii.	Deviations (if any):	NIL										

LWCBAC-7011