



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				
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:					
	i.	BRAKE EQUIPMENT			Make ESCORT	
	ii.	SEAT & BERTH			OVPL	
	lii	PVC			RESPONSIVE	
	lv	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	953.00	953.50	953.00
v. Wheel Disc No.	02746-12987	22339-923	40512-08047	41199-08548	59729-08561	55240-08077	02428-12893	02394-12893
vi. RB Nos	Q0314	Q0224	Q0456	Q0457	Q0446	Q0453	Q0460	Q0400
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 CERTIFICATE

Form 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				
	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, K1428			PEW-K14265, K14262, K14267, K				
		6			351				
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, K14381, 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			



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)	बाँडी की अधिकतम लंबाई Maximum length over Body			
	iii)	बफर की अधिकतम लंबाई Maximum length over Buffer			
	iv)	बाँडी 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)	शकू कपलर की ऊंचाई Shaku Coupler Height		Specified : 1035 +0 /-5 mm	
	x)	शकू कपलर मेक Shaku Coupler Make:			
7.	Air Brake Testing:				
		Description		Specified	
	7.1	आपातकाल एप्लीकेशन 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	तीव्रता Insensitivity BP dipped @ 0.30 Kg/cm2 n 60 sec		No brake application	
	7.3	संवेदनशीलता Sensitivity BP dipped @ 0.60 Kg/cm2 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 U 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 वेस्टीव्युबल UIC VESTIBULE		KRP	
	vi.	एलपी शीट LP SHEETS			
	vii.	बाँडी सीइड 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
	v.	Wheel Disc No.	11792-15097	11772-15097	11672-15074	15035-11589
	vi.	RB Nos	E2032	E2021	E2011	E2000
	vii.	RB Make	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)	शकू कपलर की ऊंचाई Shaku Coupler Height		Specified : 1035 +0 /-5 mm	
	x)	शकू 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	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 U 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 वेस्टीव्युबल UIC VESTIBULE		KRP	
	vi.	एलपी शीट LP SHEETS		PL	
	vii.	बॉडी सीइड 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	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: 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:										
11.2	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			
	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:										
11.3	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)	शकू कपलर की ऊंचाई Shaku Coupler Height		Specified : 1035 +0 /-5 mm	
	x)	शकू 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 U 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 वेस्टीव्युबल UIC VESTIBULE		KRP	
	vi.	एलपी शीट LP SHEETS		PL	
	vii.	बॉडी सीइड 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	
	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



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

Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
		7011	SWR	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	03169	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-16-12-043	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 lest 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, 16096,16018		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					MGN			
xiii.	Lateral Bump stop					MGN			
xiv.	Traction center make					EMSON			
xv.	Traction lever make					SARITA		AFW	
xvi.	Ball joint traction lever					MGN			
xvii.	Traction center elastic					GMT			
xviii.	Secondary rubber pad					TECSFAK			
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					

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