



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5008	DISPATCH DATE				31.07.2015
2.	Railway	NR	Type	LWSCZAC	Coach No.	153155	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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		1105	1105		
v)	Buffer/CBC (Make )	ESCORTS		Fiba Device	NA		
7.	Air Brake Testing:	Description			Specified	Observed	
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec		
		Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	VIBGYOR	86/87			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT				KBI		
iii.	CDTS				VIBHU		
iv.	SEAT & BERTH				SUTLEJ		
v.	BODY SIDE DOORS				JBM		
vi.	SALOON COMPTT DOORS				KALSI		
vii.	VESTIBULE SLIDING DOOR				CONCEPT		
viii.	WATER TANKS				E C BLADES, SHIVALIK		
ix	UIC VESTIBULE				ELASTOMER		
x	LUGGAGE RACK				HUNSPAL		
XI	FLOOR BOARD				TAYAL		
XII	PVC				PREMIER POLYFILM		
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5008		NR		LACCW		153155/C		25-06-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156433						156434			
	ii.	<b>Frame No.</b>	FIAT-4076						FIAT-4072			
	iii.	<b>Bolster No.</b>	4811-VT						4820-P			
	iv.	<b>Axle No.</b>	127754/987		127014/476		126728/468		128448/983			
	v.	<b>Wheel Dia.</b>	916.00	916.00	915.50	916.00	916.00	915.50	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	261-10533	205-50842	234-62314	106-63301	264-63301	366-63302	089-63302	201-10842	089-63302	201-10842
	vii.	<b>R.B. Nos.</b>	04259	04065	03769	03714	03693	03947	02049	02433	02049	02433
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	
i.	<b>Make &amp; nos.</b>	DN-12-11-2465	G-12-8-2687	DN-12-11-2006	G-12-8-5402	DN-12-11-2516	G-12-8-2750	DN-12-11-2278	G-12-8-2939	DN-12-11-2278	G-12-8-2939	
ii.	<b>Ht. at test load</b>	507	465	508	466	508	465	504	466	504	466	
iii.	<b>Align .deviation</b>	18	17	19	19	18	20	18	24	18	24	
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-12-6			G-12-6			GF	
	ii.	Primary inner Spring			G-12-5			G-12-5			GF	
	iii.	Primary Damper			24479,24434,24907,24441			24413,24442,24472,24638			KONI	
	iv.	Secondary damper			5404,4997			5445,5226			KONI	
	v.	Lateral Damper			447			41			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			007/691,069/601 006/691,072/691			006/691,068/691 009/691,071/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									WINIAGE-BHAM	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>			TREAD CLEANING UNIT PROVIDED							
	ii.	<b>Deviations (if any):</b>			NIL							



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5001	DISPATCH DATE			31.07.2015	
2.	Railway	NR	Type	LWSCZAC	Coach No.	153153	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	86/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAIVELEY				
	iii.	CDTS	VIBHU				
	iv.	SEAT & BERTH	SUTLEJ				
	v.	BODY SIDE DOORS	JBM				
	vi.	SALOON COMPTT DOORS	KALSI				
	vii.	VESTIBULE SLIDING DOOR	CONCEPT				
	viii.	WATER TANKS	E C BLADES,MANOJ				
	ix	UIC VESTIBULE	ELASTOMER				
	x	LUGGAGE RACK	HUNSPAL				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	PREMIER POLYFILM				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5001		NR		LACCW		153153/C		08-06-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156441						156442			
	ii.	<b>Frame No.</b>	FIAT-3976						FM-170			
	iii.	<b>Bolster No.</b>	4803-VT						4816-P			
	iv.	<b>Axle No.</b>	Z-3311			125575/377			RWF-109883		125593/377	
	v.	<b>Wheel Dia.</b>	910.00	910.00	913.00	913.00	910.00	910.00	913.00	913.00		
	vi.	<b>Wheel Disc No.</b>	161-51908	173-10533	067-10533	029-10533	232-63305	291-63309	129-61077	075-61077		
	vii.	<b>R.B. Nos.</b>	02239	04106	01423	02744	02181	03825	04141	04416		
	viii.	<b>R.B. Make</b>	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>		
i.	<b>Make &amp; nos.</b>	DN-11-12-2356	G-4-13-5310	DN-03-13-3726	G-4-13-5048	DN-01-11-1148	G-4-13-4876	DN-11-12-2113	G-04-13-5187			
ii.	<b>Ht. at test load</b>	509	466	507	466	503	467	504	466			
iii.	<b>Align .deviation</b>	15	8	17	13	15	14	16	17			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-12-6			G-12-6			GF	
	ii.	Primary inner Spring			G-12-6			G-12-6			GF	
	iii.	Primary Damper			706,781,2437,1232			757,1243,1266,2462			GEREP	
	iv.	Secondary damper			5324,5510			5461,5491			KONI	
	v.	Lateral Damper			3226			3075			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15006/600,15029/600, E15025/600,E15028/600			15051/600,15058/600, E15064/600,E15065/600			FTI	
	viii.	Brake Disc									KBI,FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									SGA,GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									WINILANE	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON,SAR ITA	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			LESS WHEEL DIA.							

LWSCZAC-5001



ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5012	DISPATCH DATE			08.08.2015	
2.	Railway	NR	Type	LWSCZAC	Coach No.	153159	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1100	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/87		
	8.2	APPLICATION OF PCN-123		SATISFACTORY			
	8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		KBI			
	iii.	CDTS		VIBHU			
	iv.	SEAT & BERTH		SUTLEJ			
	v.	BODY SIDE DOORS		JBM			
	vi.	SALOON COMPTT DOORS		KALSI			
	vii.	VESTIBULE SLIDING DOOR		CP			
	viii.	WATER TANKS		E C BLADES, SHIVALIK			
	ix	UIC VESTIBULE		KRP			
	x	LUGGAGE RACK		HANSPAL			
	XI	FLOOR BOARD		TAYAL			
	XII	PVC		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5012		NR		LWSCZAC		153159/C		20-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156495						156494			
	ii.	<b>Frame No.</b>	FIAT-3916						FIAT-4120			
	iii.	<b>Bolster No.</b>	4806-VT						4846-VT			
	iv.	<b>Axle No.</b>	127862/987			127828/987			126718/468		125609/377	
	v.	<b>Wheel Dia.</b>	917.00	917.00	916.50	916.50	916.00	916.00	916.50	916.00		
	vi.	<b>Wheel Disc No.</b>	6146-00176	6147-00126	06148-00210	06146-00011	06146-00176	06146-00007	6147-00082	6147-00119		
	vii.	<b>R.B. Nos.</b>	25672	25650	24682	25182	24086	24368	25899	25230		
	viii.	<b>R.B. Make</b>	SKF			SKF			SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-13-3-3187	G-12-11-3714	DN-13-3-3291	G-12-11-3700	DN-13-3-3251	G-12-11-3682	DN-13-3-3266	G-12-11-3976			
ii.	<b>Ht. at test load</b>	507	466	507	466	509	467	510	465			
iii.	<b>Align .deviation</b>	16	22	16	21	17	10	20	14			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-14-5			RSK-14-5			RSK	
	iii.	Primary Damper			24537,24361,24551,24358			26362,24501,24491,24378			KONI	
	iv.	Secondary damper			5335,4541			5398,4136			KONI	
	v.	Lateral Damper			3204			3205			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1064/691,1144/691,1083/691,1135/691			1147/691,1222/691,1146/691,1223/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									GMT	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									MGN	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									WINLANE	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

WSCZAC-5012



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5009	DISPATCH DATE				31.07.2015
2.	Railway	NR	Type	LWSCZAC	Coach No.	153156	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	89/90		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		KBI			
	iii.	CDTS		VIBHU			
	iv.	SEAT & BERTH		SUTLEJ			
	v.	BODY SIDE DOORS		JBM			
	vi.	SALOON COMPTT DOORS		KALSI			
	vii.	VESTIBULE SLIDING DOOR		CP			
	viii.	WATER TANKS		E C BLADES, SHIVALIK			
	ix	UIC VESTIBULE		ELASTOMER			
	x	LUGGAGE RACK		HANSPAL			
	XI	FLOOR BOARD		TAYAL			
	XII	PVC		RESPONSIVE			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			5009	NR	LWSCZAC	153156/C	25-06-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156435				156436				
		ii. <b>Frame No.</b>	FIAT-4055				FIAT-4075				
		iii. <b>Bolster No.</b>	4823-P				4819-P				
		iv. <b>Axle No.</b>	C-4349		B-9711		A-2892		A-3163		
		v. <b>Wheel Dia.</b>	913.00	913.00	910.00	910.00	913.00	913.00	912.00	912.50	
		vi. <b>Wheel Disc No.</b>	228-10583	264-11600	099-11600	168-11605	278-63301	233-11611	196-63302	123-63307	
		vii. <b>R.B. Nos.</b>	04662	04137	04074	03981	03612	03910	04743	04574	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	DN-11-12-2407	G-8-12-3126	DN-11-12-2039	G-8-12-2852	DN-08-12-2167	G-8-12-5436	DN-11-12-2012	G-8-12-2690	
ii.	ii.	<b>Ht. at test load</b>	507	467	509	467	509	466	511	467	
iii.	iii.	<b>Align .deviation</b>	19	24	20	27	23	14	24	17	
11.3	12.3	<b>Items traceability:</b>									
		<b>Sno.</b>	<b>Item</b>		<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>		
		i.	Primary Outer Spring		G-12-6		G-12-6		GF		
		ii.	Primary inner Spring		G-12-06		G-12-06		GF		
		iii.	Primary Damper		800,1245,1205,703		1206,403,710,773		GEREP		
		iv.	Secondary damper		4963,5304		5175,5150		KONI		
		v.	Lateral Damper		L-3202		L-340		KONI		
		vi.	Yaw Damper						NIL		
		vii.	Brake cylinder & Caliper		1062/691,1077/691 1027/691,1122/691		1028/691,1121/691 1063/691,1078/691		KBI		
		viii.	Brake Disc						KBI		
		ix.	Ball joint Control arm						MGN,GMT		
		x.	Lateral Bump stop						GMT		
		xi.	Traction center make						SARITA		
		xii.	Traction lever make						SARITA		
		xiii.	Ball joint traction lever						MGN		
		xiv.	Traction centre elastic						SGA,MGN		
		xv.	Secondary rubber pad						TESPAK		
		xvi.	Rubber spring						WINILANE/B HAM		
		xvii.	Anti roll bar make						EMSON		
		xviii.	Ball joint roll link						SARITA		
		xix.	Fork make						EMSON		
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				TREAD CLEANING UNIT PROVIDED				
		ii.	<b>Deviations (if any):</b>				LESS WHEEL DIA.				

LWSCZAC-5009





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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5005	DISPATCH DATE				11.08.2015
2.	Railway	NR	Type	LWSCZAC	Coach No.	153163	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	86/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			AIR FLOW		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			CP		
	viii.	WATER TANKS			E C BLADES, SHIVALIK		
	ix	UIC VESTIBULE			KRP		
	x	LUGGAGE RACK			HUNSPAL		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			RESPONSIVE		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>		
			5005		NR		LACCW		153163/C		23-07-2015		
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>				
	i.	<b>Bogie No.</b>	156470						156471				
	ii.	<b>Frame No.</b>	FIAT-3908						FIAT-4033				
	iii.	<b>Bolster No.</b>	4833-P						4869-VT				
	iv.	<b>Axle No.</b>	128023/988		127776/987		129116/992		B-9787				
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	915.00	915.00	916.00	916.00			
	vi.	<b>Wheel Disc No.</b>	343-63302	720-63307	369-63302	328-63305	157-62314	227-11611	06146-00025	06148-00050			
	vii.	<b>R.B. Nos.</b>	04120	04181	04522	04579	04094	04059	04204	04367			
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN				
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING										
11.2	<b>Secondary suspension load deflection Values:</b>												
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	<b>Make &amp; nos.</b>	DN-12-11-1848	G-12-11-3973	DN-12-10-2116	G-12-11-4003	DN-12-11-2263	G-12-11-2995	DN-12-10-2448	11-3972				
ii.	<b>Ht. at test load</b>	509	467	509	467	508	467	508	467				
iii.	<b>Align .deviation</b>	17	18	14	18	508	467	508	467				
11.3	<b>Items traceability:</b>												
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>		
	i.	Primary Outer Spring			L&S-128			L&S-13-03			L&S-		
	ii.	Primary inner Spring			L&S-13-02			L&S-13-02			L&S-		
	iii.	Primary Damper			522,1585,395,316			367,1121,1676,1471			GEREP		
	iv.	Secondary damper			5333,5276			5478,4989			KONI		
	v.	Lateral Damper			3080			3209			KONI		
	vi.	Yaw Damper									NIL		
	vii.	Brake cylinder & Caliper			1103/691,1177/691,1114/691,1216/691			1197/691,1217/691,1114/691,1216/691			KBI		
	viii.	Brake Disc									KBI		
	ix.	Ball joint Control arm									MGN		
	x.	Lateral Bump stop									MGN		
	xi.	Traction center make									SARITA		
	xii.	Traction lever make									SARITA		
	xiii.	Ball joint traction lever									MGN		
	xiv.	Traction centre elastic									MGN		
	xv.	Secondary rubber pad									TESPAK		
	xvi.	Rubber spring									WINLANE		
	xvii.	Anti roll bar make									EMSON		
	xviii.	Ball joint roll link									SARITA		
	xix.	Fork make									SARITA		
11.4	i.	<b>Modification / Trial (if any):</b>			TREAD CLEANING UNIT PROVIDED								
	ii.	<b>Deviations (if any):</b>			NIL								

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5011	DISPATCH DATE			30.07.2015	
2.	Railway	NR	Type	LWSCZAC	Coach No.	153157	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	87/89		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAIVELEY			
	iii.	CDTS		VIBHU			
	iv.	SEAT & BERTH		SUTLEJ			
	v.	BODY SIDE DOORS		JBM			
	vi.	SALOON COMPTT DOORS		KALSI			
	vii.	VESTIBULE SLIDING DOOR		CONCEPT			
	viii.	WATER TANKS		E C BLADES, MANOJ			
	ix	UIC VESTIBULE		ELASTOMER			
	x	LUGGAGE RACK		HUNSPAL			
	XI	FLOOR BOARD		TAYAL			
	XII	PVC		PREMIER POLYFILM			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	12.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date						
			5011	NR	LWSCZAC	153157	11-09-2014						
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>						
		i. Bogie No.	146759				146760						
		ii. Frame No.	FIAT-3411				FIAT-3428						
		iii. Bolster No.	4255-VT				4036						
		iv. Axle No.	RWF-110319		W-4585		Z-3975		Z-3065				
		v. Wheel Dia.	916.50	916.50	916.00	916.00	916.00	916.00	916.00	916.00			
		vi. Wheel Disc No.	027-63307	170-63301	221-10510	101-10583	120-10568	025-10568	102-10568	086-10570			
		vii. R.B. Nos.	03662	03670	01068	01439	01536	01070	01084	01556			
		viii. R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN				
		ix. RB Type	UIC CARTRIDGE TAPER ROLLER BEARING										
11.2	12.2	<b>Secondary suspension load deflection Values:</b>											
		<b>Description</b>		<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>	
						Outer	Inner	Outer	Inner	Outer	Inner	Outer	
i.	i.	Make & nos.	G12-6-2033	G13-3-4644	G12-6-1880	G13-3-4648	G12-6-1879	G13-3-4356	G12-6-2002	G13-3-4356			
ii.	ii.	Ht. attest load	510	464	510	464	510	466	512	467			
iii.	iii.	Align .deviation	3	20	2	19	7	11	4	12			
11.3	12.3	<b>Items traceability:</b>											
		<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>			
		i.	Primary Outer Spring			G-12-10		G-12-10		GF			
		ii.	Primary inner Spring			G-12-5		G-12-5		GF			
		iii.	Primary Damper							KONI			
		iv.	Secondary damper							GEREP			
		v.	Lateral Damper							KONI			
		vi.	Yaw Damper							NIL			
		vii.	Brake cylinder & Caliper							FTI			
		viii.	Brake Disc							KBI			
		ix.	Ball joint Control arm							SGA			
		x.	Lateral Bump stop							GMT			
		xi.	Traction center make							SARITA			
		xii.	Traction lever make							SARITA			
		xiii.	Ball joint traction lever							GMT			
		xiv.	Traction centre elastic							SGA			
		xv.	Secondary rubber pad							TESPAK			
		xvi.	Rubber spring							GMT			
		xvii.	Anti roll bar make							SARITA			
		xviii.	Ball joint roll link							SARITA			
		xix.	Fork make							EMSON			
11.4	12.4	i.	Modification / Trial (if any):					NIL					
		ii.	Deviations (if any):					NIL					

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5010	DISPATCH DATE				04.08.2015
2.	Railway	NR	Type	LWSCZAC	Coach No.	153158	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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	1105	1105		
	v)	Buffer/CBC (Make )	ESCORTS	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	VIBGYOR	92/90		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT				KBI	
	iii.	CDTS				VIBHU	
	iv.	SEAT & BERTH				SUTLEJ	
	v.	BODY SIDE DOORS				JBM	
	vi.	SALOON COMPTT DOORS				KALSI	
	vii.	VESTIBULE SLIDING DOOR				CP	
	viii.	WATER TANKS				E C BLADES, SHIVALIK	
	ix	UIC VESTIBULE				ELASTOMER/SUNEREST	
	x	LUGGAGE RACK				HUNSPAL	
	XI	FLOOR BOARD				TAYAL	
	XII	PVC				PREMIER POLYFILM	
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5010		NR		LACCW		153158/C		26-06-2015	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	156431						156432			
	ii.	Frame No.	FIAT-4038						FIAT-4063			
	iii.	Bolster No.	4788-P						4802/VT			
	iv.	Axle No.	A-3048		A-2872		A-3240		106647/632			
	v.	Wheel Dia.	913.00	913.00	913.00	913.00	913.00	913.00	912.00	912.00		
	vi.	Wheel Disc No.	151-61077	098-10559	006-10579	087-63301	166-10583	360-63309	336-11605	093-10533		
	vii.	R.B. Nos.	03741	04026	03622	04856	03799	04291	04785	04324		
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	DN-12-02-2394	G-13-05-4868	DN-12-02-2026	G-13-05-4749	DN-12-02-2326	G-13-05-4865	DN-12-02-2521	G-13-05-4840			
ii.	Ht. at test load	504	467	506	467	503	464	504	467			
iii.	Align .deviation	21	7	22	11	18	4	18	4			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			G-13-3		G-13-03		GF			
	ii.	Primary inner Spring			G-12-06		G-12-06		GF			
	iii.	Primary Damper			24480,24398,24471,24464		24414,24805,24470,24483		KONI			
	iv.	Secondary damper			5346,5411		5513,4955		KONI			
	v.	Lateral Damper			60		54		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			1135/691,1117/691,1036/691,1118/691		1034/691,1119/61,1033/691,1119/691		KBI			
	viii.	Brake Disc							FTI,KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							SARITA			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							MGN			
	xiv.	Traction centre elastic							MGN			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							BATEGU			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							EMSON			
11.4	i.	Modification / Trial (if any):				TREAD CLEANING UNIT PROVIDED						
	ii.	Deviations (if any):				LESS WHEEL DIA						

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5002	DISPATCH DATE				31.07.2015
2.	Railway	NR	Type	LWSCZAC	Coach No.	153154	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	40.28 T					
5.	Carrying Capacity	Seating	78	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		1105	1105	
	v)	Buffer/CBC (Make )	ESCORTS		Fiba Device	NA	
7.	Air Brake Testing:		Description		Specified	Observed	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	CDTS			VIBHU		
	iv.	SEAT & BERTH			SUTLEJ		
	v.	BODY SIDE DOORS			JBM		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			CP		
	viii.	WATER TANKS			E C BLADES, SHIVALIK		
	ix	UIC VESTIBULE			ELASTOMER		
	x	LUGGAGE RACK			HANSPAL		
	XI	FLOOR BOARD			TAYAL		
	XII	PVC			PREMIER POLYFILM		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5002		NR		LWSCZAC		153154		01-07-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156474						156475			
	ii.	<b>Frame No.</b>	FIAT-4100						FIAT-4066			
	iii.	<b>Bolster No.</b>	4878-P						4873-P			
	iv.	<b>Axle No.</b>	127800/987		128142/984		125867/477		128598/989			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	06146-00099	06146-00136	06146-00074	06146-00147	06147-00035	06146-00061	6147-00095	06146-00019		
	vii.	<b>R.B. Nos.</b>	02629	02443	01821	04413	04441	02603	04493	02638		
	viii.	<b>R.B. Make</b>	TIMKEN		TIMKEN		TIMKEN		TIMKEN			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>		
i.	<b>Make &amp; nos.</b>	DN-12-03-3374	G-12-11-4004	DN-12-03-3288	G-12-11-4199	DN-12-03-3199	G-12-11-3772	DN-12-03-3250	G-12-11-3960			
ii.	<b>Ht. at test load</b>	507	467	508	466	507	467	508	467			
iii.	<b>Align .deviation</b>	14	12	17	13	18	6	18	11			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			RSK-12-5			RSK-12-5			RSK	
	iii.	Primary Damper			307,397,319,398			359,1396,1676,488			GEREP	
	iv.	Secondary damper			5039,5146			4994,5344			KONI	
	v.	Lateral Damper			3228			3131			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1102/691,1179/691 1101/691,1178/691			1144/691,1173/691 1143/691,1172/691			KBI	
	viii.	Brake Disc									KNBI,FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									SGA	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									WINILANE	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>			TREAD CLEANING UNIT PROVIDED							
	ii.	<b>Deviations (if any):</b>			NIL							

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