



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6002	DISPATCH DATE			14.07.16	
2.	Railway	NR	Type	LWACCN	Coach No.	163926	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	FAVELLY	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	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	BIO TOILET	MK PRECISION				
	iii.	SEATS/ BERTHS	SAVITRY				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HP				
	vii.	WATER TANKS	MANOJ, SHIVALIK,KUTEER				
	viii.	UIC VESTIBULE	ESCORT				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6002		NR		LWACCN		163926/C		25-05-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166445					166446				
	ii.	Frame No.	FIAT-4172					FIAT-4243				
	iii.	Bolster No.	5804-VT					5671-VT				
	iv.	Axle No.	N-6442		N-6195		N-5818		N-5822			
	v.	Wheel Dia.	916.50	917.00	916.00	916.00	917.00	917.50	917.00	917.00		
	vi.	Wheel Disc No.	7280-00154	7304-00071	7300-00070	7274-00003	7291-00088	7298-00155	7298-00014	7298-00105		
	vii.	R.B. Nos.	06274	05118	06302	05288	04918	05493	04750	07055		
	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-15-6-1840	GBD-16-3-018	DN-15-6-2077	GBD-16-3-036	DN-15-6-1891	GBD-16-3-025	DN-15-19696-	GBD-16-3-047			
ii.	Ht. at test load	511	467	511	468	512	468	512	466			
iii.	Align .deviation	11	9	12	9	8	6	9	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			0440,0566,0420,0443			0423,0503,0504,0604			KNORR	
	iv.	Secondary damper			1480,1061			1420,979			GEREP	
	v.	Lateral Damper			249						GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			3259/691,3248/691 3261/691,3249/691			3258/691,3247/691 3260/691,3246/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6016	DISPATCH DATE			12.07.16	
2.	Railway	NR	Type	LWACCN	Coach No.	163297	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	ESCORT	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	83/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	ii.	BIO TOILET	MK PRECISION				
	iii.	SEATS/ BERTHS	SAVITRY				
	iv.	BODY SIDE DOOR	JBM				
	v.	VESTIBULE SLIDING DOOR	HP				
	vii.	WATER TANKS	MANOJ, AMIT,KUTEER				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	TAYAL				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6016		NR		LWACCN		163297		31-05-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166467					166468				
	ii.	Frame No.	FM-517					FM-513				
	iii.	Bolster No.	5830-VT					5829-VT				
	iv.	Axle No.	N-0689		N-0649		K-6352		N-6196			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00		
	vi.	Wheel Disc No.	7274-00155	7283-00186	7279-00202	6204-00005	7271-00068	7275-00020	7279-00107	7279-00121		
	vii.	R.B. Nos.	05681	05682	04722	05512	03414	03400	05241	06242		
	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.	G-16-1-1208	RSK-15-9-150	G-16-1-1269	RSK-15-3-133	G-16-1-1233	RSK-15-3-144	G-16-1-1214	RSK-15-3-50			
ii.	Ht. at test load	513	467	514	467	514	465	512	463			
iii.	Align .deviation	19	32	21	34	22	38	23	39			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-14-5			RSK-14-5			RSK	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			0415,0456,0429,0512			0542,0416,0484,0496			KNORR	
	iv.	Secondary damper			1445,914			1495,1095			GEREP	
	v.	Lateral Damper			0118			0149			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2885/691,2931/691 2872/691,2928/691			2896/691,2929/691 2864/691,2932/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5082	DISPATCH DATE				13.07.16
2.	Railway	NR	Type	LWACCN	Coach No.	163929	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	ESCORT		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		GS	85/86	
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
	i.	BRAKE EQUIPMENT					KBI
	ii.	BIO TOILET					MK PRECISION
	iii.	SEATS/ BERTHS					OVPL
	iv.	BODY SIDE DOOR					JBM
	v.	VESTIBULE SLIDING DOOR					HP
	vii.	WATER TANKS					MANOJ, KUTEER
	viii.	UIC VESTIBULE					ESCORT
	ix	FLOOR BOARD					NARBADA
	X	PVC					RESPONSIVE
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			5082	NR	LWACCN	163929/C	22-06-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166509				166515			
	ii.	Frame No.	FIAT-4848				FIAT-4893			
	iii.	Bolster No.	5683-PS				5867-PS			
	iv.	Axle No.	K-3841		K-3517		K-5852		K-6203	
	v.	Wheel Dia.	916.00	916.00	917.00	916.50	916.50	916.00	916.50	917.00
	vi.	Wheel Disc No.	13353-00067	13353-00126	13353-00144	13351-00113	13352-00258	13352-00108	13352-00199	13352-00145
	vii.	R.B. Nos.	33303	35307	33903	01269	02279	02274	01248	01376
	viii.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	G-16-1-1020	RSK-15-3-157	G-16-1-1080	RSK-15-3-169	G-16-1-1150	RSK-15-3-156	G-16-1-1166	RSK-15-3-143	
ii.	Ht. at test load	513	465	513	466	512	465	512	463	
iii.	Align .deviation	15	28	15	29	21	31	21	34	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
i.		Primary Outer Spring	RSK-15-11			RSK-15-11			RSK	
ii.		Primary inner Spring	G-15-9			G-15-9			GF	
iii.		Primary Damper	644,672,665,881			0812,654,0905,0820			KNORR	
iv.		Secondary damper	1462,1320			1506,1330			GEREP	
v.		Lateral Damper	0383			0178			KNORR	
vi.		Yaw Damper							NIL	
vii.		Brake cylinder & Caliper	3229/691,3244/691 3230/691,3243/691			3314/691,3281/691 3315/691,3202/691			KBI	
viii.		Brake Disc							FTI	
ix.		Ball joint Control arm							GMT	
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							GMT	
xv.		Secondary rubber pad							BHAM	
xvi.		Rubber spring							GMT	
xvii.		Anti roll bar make							EMSON. SARITA	
xviii.		Ball joint roll link							SARITA	
xix.		Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

LWACCN 5082



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6013	DISPATCH DATE				15.6.2016
2.	Railway	NR	Type	LWACCN	Coach No.		163975
3.	Booked to		SSE/C&W/NDLS				
4.	Tare Weight of Coach		45.6 T				
5.	Carrying Capacity	Seating	72	Sleeping	72	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)		ESCORT		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,GS	86/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:						Make
i.	BRAKE EQUIPMENT						KBI
ii.	CDTS/ BIO TOILET						RAIL FAB
iii.	SEATS/ BERTHS						OVPL
iv.	BODY SIDE DOOR						,JBM
v.	VESTIBULE SLIDING DOOR						HP
vii.	WATER TANKS						SHIVALIK, ,MANOJ,KUTEER
viii.	UIC VESTIBULE						KRP
ix	FLOOR BOARD						TAYAL
X	PVC						RESPONSIVE
10.							
10.1	Modification / Trail (if any):						
10.2	Deviations if any:		NIL				



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6013	NR	LWACCN	163975/C	25-05-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166443				166444			
	ii.	Frame No.	FIAT-4196				FM-483			
	iii.	Bolster No.	5806-VT				5782-VT			
	iv.	Axle No.	K-6706		N-6310		K-3055		K-3248	
	v.	Wheel Dia.	917.00	917.00	916.00	916.50	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	7277-00018	7277-00205	7291-00096	7298-00150	7272-00207	07298-00171	7291-00193	7283-00014
	vii.	R.B. Nos.	07064	03018	04757	05415	05518	04562	05182	04548
	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-15-6-1972	GBD-16-3-46	DN-15-6-1994	GBD-16-3-1	DN-15-6-1907	GBD-16-3-30	DN-15-6-1876	GBD-16-3-9	
ii.	Ht. at test load	512	467	511	467	510	466	510	466	
iii.	Align .deviation	12	8	16	8	7	6	8	8	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring	RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring	G-15-9			G-15-9			GF	
	iii.	Primary Damper	0525,0438,0444,0514			446,0439,0523,0502			KNORR	
	iv.	Secondary damper	1488,1492			954,975			GEREP	
	v.	Lateral Damper	141			235			GEREP	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	3307/691,3253/691 3308/691,3252/691			3234/691,3209/691 3265/691,3210/691			KBI	
	viii.	Brake Disc							FTI	
	ix.	Ball joint Control arm							GMT	
	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							EMSON	
	xviii.	Ball joint roll link							SARITA	
	xix.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):							NIL	
	ii.	Deviations (if any):							NIL	

LWACCN-6013



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5079	DISPATCH DATE			30.6.2016	
2.	Railway	NR	Type	LWACCN	Coach No.	163962	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)		ESCORT		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		GS		85/87
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT		FAVELLY				
ii.	CDTS/ BIO TOILET		MK PRECISION				
iii.	SEATS/ BERTHS		ARR KAYE				
iv.	BODY SIDE DOOR		JBM				
v.	VESTIBULE SLIDING DOOR		HP				
vii.	WATER TANKS		KUTEER, AMIT,MANOJ				
viii.	UIC VESTIBULE		ESCORT				
ix	FLOOR BOARD		TAYAL				
X	PVC		RESPONSIVE				
10.							
10.1	Modification / Trail (if any):						
10.2	Deviations if any:					NIL	



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			5079		NR		LWACCN		163962		26-02-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166070					166071				
	ii.	Frame No.	FIAT-4604					FIAT-4613				
	iii.	Bolster No.	5437-VT					5348-P				
	iv.	Axle No.	R-3328		130078/986		127788/987		125620/377			
	v.	Wheel Dia.	915.50	915.50	916.00	916.00	915.00	915.00	915.00	915.00		
	vi.	Wheel Disc No.	07301-00032	6226-00034	06234-00030	6226-00026	6210-00069	7290-00021	6230-00009	6210-00168		
	vii.	R.B. Nos.	33964	01171	33981	01181	35319	35318	33970	33979		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	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.	FSK-15-9-44	RSK-15-3-287	FSK-15-9-11	RSK-15-3-191	FSK-15-9-28	RSK-15-3-103	FSK-15-9-3	RSK-15-3-260			
ii.	Ht. at test load	510.50	466	512	468	515	464	514	463			
iii.	Align .deviation	8	41	9	43	8	29	11	31			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			RSK-14-5		RSK-14-5		RSK			
	ii.	Primary inner Spring			FSK-15-6		FSK-15-6		FSK			
	iii.	Primary Damper			1827,1847,1855,1835		1860,1867,1823,1806		GEREP			
	iv.	Secondary damper			394,399		377,583		GEREP			
	v.	Lateral Damper			174		501		GEREP			
	vi.	Yaw Damper							NIL			
	vii.	Brake cylinder & Caliper			2977/691,3021/691 2973/691,3222/691		2973/691,3028/691 2970/691,2995/691		KBI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							MGN			
	x.	Lateral Bump stop							MGN			
	xi.	Traction center make							EMSON			
	xii.	Traction lever make							SARITA			
	xiii.	Ball joint traction lever							SGA			
	xiv.	Traction centre elastic							SGA			
	xv.	Secondary rubber pad							TESPAK			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6020	DISPATCH DATE				19.07.16
2.	Railway	NR	Type	LWACCN	Coach No.	163924	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	ESCORT	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	GS	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
	i.	BRAKE EQUIPMENT			KBI		
	ii.	BIO TOILET			MK PRRECSION		
	iii.	SEATS/ BERTHS			OVPL		
	iv.	BODY SIDE DOOR			JBM,SUKATA		
	v.	VESTIBULE SLIDING DOOR			HP		
	vii.	WATER TANKS			MANOJ, AMIT,KUTEER		
	viii.	UIC VESTIBULE			ESCORT		
	ix	FLOOR BOARD			NARBADA		
	X	PVC			RESPONSIVE		
	XI	LP SHEET			KAE		
10.							
	10.1	Modification / Trail (if any):			FITTED WITH BIO DIGESTER OF M/s RAIL FAB		
	10.2	Deviations if any:			NIL		



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6020		NR		LWACCN		163924		26-05-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166447					166448				
	ii.	Frame No.	FIAT-4163					FIAT-4869				
	iii.	Bolster No.	5658-VT					5799-VT				
	iv.	Axle No.	N-0787		K-6187			N-0717		K-6180		
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00		
	vi.	Wheel Disc No.	7304-00116	7280-00196	7280-00181	07298-00114	07203-00120	7272-00105	07302-00122	7289-00134		
	vii.	R.B. Nos.	04006,	04691	04726	03611	04095	03504	06212	04831		
	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-15-6-1845	GBD-16-3-29	DN-15-6-1866	GBD-16-3-44	DN-15-6-1984	GBD-16-3-50	DN-15-6-1955	GBD-16-3-32			
ii.	Ht. at test load	510	468	510	468	513	467	513	467			
iii.	Align .deviation	9	8	13	11	11	8	7	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			G-15-9			G-15-9			GF	
	iii.	Primary Damper			0583,600,552,513			0578,0627,0632,608			KNORR	
	iv.	Secondary damper			1411			1424,946			GEREP	
	v.	Lateral Damper			77			207			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			2910/691,2936/691 2366/691,2984/691			2390/691,2983/691 2337/691,2985/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA, EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LWACCN 6020



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6021	DISPATCH DATE				16.07.16
2.	Railway	NR	Type	LWACCN	Coach No.	163928	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	ESCORT		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	86/87			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT					FAVELLY	
ii.	BIO TOILET					MK PRECISION	
iii.	SEATS/ BERTHS					OVPL	
iv.	BODY SIDE DOOR					JBM	
v.	VESTIBULE SLIDING DOOR					HP	
vii.	WATER TANKS					MANOJ, AMIT	
viii.	UIC VESTIBULE					ESCORT/KRP	
ix	FLOOR BOARD					NARBADA	
X	PVC					RESPONSIVE	
10.							
10.1	Modification / Trail (if any):					FITTED WITH BIO DIGESTER OF M/s RAIL FAB	
10.2	Deviations if any:					NIL	



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6021		NR		LWACCN		163928		25-06-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166524					166525				
	ii.	Frame No.	FIAT-4289					FIAT-4859				
	iii.	Bolster No.	5882-PS					5886-PS				
	iv.	Axle No.	K-6085		N-6724		K-3785		N-1055			
	v.	Wheel Dia.	916.50	916.00	916.50	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	13353-00054	13353-00108	13353-00133	13353-00062	7277-00138	7303-00199	13351-00034	13353-00091		
	vii.	R.B. Nos.	34146	29978	29273	33969	34337	34309	33467	33985		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	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.	G-16-01-1172	RSK-16-03-88	G-16-01-1231	RSK-16-03-104	G-16-01-1151	RSK-16-03-146	G-16-01-1257	RSK-16-03-131			
ii.	Ht. at test load	512	465	513	468	514	467	513	468			
iii.	Align .deviation	18	41	19	43	20	23	21	23			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			YR-10-11			G-15-9			YR,GF	
	iii.	Primary Damper			925,656,928,0587			904,643,622,843			KNORR	
	iv.	Secondary damper			563,568			303,270			KNORR	
	v.	Lateral Damper			0362			0181			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			C16218/600,D16039/600 C16216/600,D16046/600			D16009/600,D16033/600 D16034/600,C16192/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									GMT	
	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									GMT	
	xv.	Secondary rubber pad									BHAM	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 2

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6024	DISPATCH DATE			18.07.16	
2.	Railway	NR	Type	LWACCN	Coach No.	163930	
3.	Booked to	SSE/C&W/NDLS					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	FAVELLY	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	88/899		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	FAVELLY				
	ii.	BIO TOILET	RAILFAB				
	iii.	SEATS/ BERTHS	OVPL				
	iv.	BODY SIDE DOOR	JBM,SUKATA				
	v.	VESTIBULE SLIDING DOOR	HP				
	vii.	WATER TANKS	MANOJ, AMIT,KUTEER				
	viii.	UIC VESTIBULE	KRP				
	ix	FLOOR BOARD	NARBADA				
	X	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any):	FITTED WITH BIO DIGESTER OF M/s RAIL FAB				
	10.2	Deviations if any:	NIL				



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6024		NR		LWACCN		163930		24-06-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166520					166521				
	ii.	Frame No.	FIAT-4835					FIAT-4862				
	iii.	Bolster No.	5878-PS					5880-PS				
	iv.	Axle No.	K-6101		K-2857		K-3907		N-6424			
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	07280-00180	07298-00093	07298-00066	7280-00168	7280-00167	7298-00159	7280-00078	07298-00139		
	vii.	R.B. Nos.	01513	21661	21671	21222	02401	31254	21229	21660		
	viii.	R.B. Make	SKF		SKF		SKF		SKF			
	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.	G-16-1-1179	RSK-15-3-134	G-16-1-1149	RSK-15-3-100	G-16-1-1146	RSK-15-3-099	G-16-1-1177	RSK-15-3-139			
ii.	Ht. at test load	513	468	512	466	512	465	512	463			
iii.	Align .deviation	22	27	23	33	19	7	21	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring			RSK-15-11		RSK-14-11		RSK			
	ii.	Primary inner Spring			G-15-9		G-15-9		GF			
	iii.	Primary Damper			798,901,796,919		733,686,835,747		KNORR			
	iv.	Secondary damper			450,530		409,325		GEREP			
	v.	Lateral Damper			0167		366		KNORR			
	vi.	Yaw Damper			C16090/600,D16041/600 C16155/600,D16050/600		C16176/600,D16081/600 C16195/600,D16044/600		NIL			
	vii.	Brake cylinder & Caliper							FTI			
	viii.	Brake Disc							KBI			
	ix.	Ball joint Control arm							GMT			
	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							GMT			
	xv.	Secondary rubber pad							BHAM			
	xvi.	Rubber spring							GMT			
	xvii.	Anti roll bar make							EMSON			
	xviii.	Ball joint roll link							SARITA			
	xix.	Fork make							SARITA			
11.4	i.	Modification / Trial (if any):					NIL					
	ii.	Deviations (if any):					NIL					

