

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6002	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163165	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	CBC (Make)	ESCORT	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			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	91/67		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	i.	BRAKE EQUIPMENT	KBI				
	iii.	BIO-TOILET	RAIL FAB+ JSL LIFE STYLE LTD				
	iv.	SEATS	SUTLEJ				
	v.	BODY SIDE DOORS	KNOR BREMES				
	vi.	SALOON COMPTT DOORS	KALSI				
	vii.	VESTIBULE SLIDING DOOR	HANSPAL				
	viii.	WATER TANKS	(AUX)SHIVALIK & (U/S) SHIVALIK				
	ix	UIC VESTIBULE	HUBNER INTERFACE				
	x	LUGGAGE RACK	RAIL TECH				
	XI	FLOOR BOARD	TAYAL				
	XII	PVC	RESPONSIVE				
10.							
	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .					



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Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6002	NR	LWSCZAC	163165	17-03-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166267 (HIGH SPEED)				166268 (HIGH SPEED)			
	ii.	Frame No.	FIAT-4722				FIAT-4725			
	iii.	Bolster No.	5630-P				5628-P			
	iv.	Axle No.	128435/983		116188/377		126708/468		129325/982	
	v.	Wheel Dia.	916.50	916.00	916.00	916.00	917.00	916.50	916.00	916.00
	vi.	Wheel Disc No.	7304-00004	7277-00056	7304-00060	7277-00159	7277-00157	7304-00057	7277-00156	7304-00002
	vii.	R.B. Nos.	04524	05224	05697	05197	01104	05434	05117	05174
	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.	RSK-15-5-696	RSK-15-9-070	RSK-15-5-641	RSK-15-9-101	RSK-15-5-391	RSK-15-9-225	RSK-15-5-715	RSK-15-9-082	
ii.	Ht. at test load	508	465	510	468	511	466	512	462	
iii.	Align .deviation	18	28	21	29	23	22	25	25	
11.3	Items traceability:									
	Sno.	Item			PP Side Bogie		NPP side Bogie		Make	
	i.	Primary Outer Spring			L&S-12-5		L&S-12-5		L&S	
	ii.	Primary inner Spring			L&S-13-2		L&S-13-2		L&S	
	iii.	Primary Damper			1652,1978,1894,2053		1963,1805,1971,2080		GEREP	
	iv.	Secondary damper			620,116		66,196		GEREP	
	v.	Lateral Damper			3380		5628		KONI	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			J-9222/688,J9328/688 J9223/688,J9331/688		J9221/688,J9330/688 J9220/688,J9329/688		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							MGN	
	x.	Lateral Bump stop							MGN	
	xi.	Traction center make							EMSON,SAR ITA	
	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			

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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6004	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163167	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	CBC (Make)	ESCORT	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			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	87/88		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO-TOILET			RAIL TECH+ JSL LIFE STYLE		
	iv.	SEATS			SUTLEJ		
	v.	BODY SIDE DOORS			KNOR BREMES		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			HANSPAL		
	viii.	WATER TANKS			(AUX)AMIT & (U/S) AMIT		
	ix	UIC VESTIBULE			HUBNER INTERFACE		
	x	LUGGAGE RACK			RAIL TECH		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 . 7.Vacuum Toilet System supply and fitted by M/S. Amit Engineers Badi Contact No.09814787247					



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6004	NR	LWSCZAC(HS)	163167	08-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166533				166534			
	ii.	Frame No.	FIAT-4721				FIAT-4888			
	iii.	Bolster No.	5871-PS				5884-PS			
	iv.	Axle No.	N-0879		K-6795		N-0632		N-5747	
	v.	Wheel Dia.	916.00	916.00	917.00	917.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	7270-00140	7305-00029	7279-00024	7283-00026	13350-00045	13350-00064	13354-00203	13350-00189
	vii.	R.B. Nos.	03518	05670	03017	04753	05275	04099	05425	03814
	viii.	R.B. Make	TIMKEN		TIMKEN		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.	RSK-15-3-08	RSK-15-3-103	RSK-15-3-09	RSK-15-3-96	RSK-15-3-010	RSK-16-3-166	RSK-15-3-02	RSK-15-3-14	
ii.	Ht. at test load	508	466	508	464	511	465	510	466	
iii.	Align .deviation	7	33	10	34	10	27	12	28	
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			RSK-14-05		RSK-14-05		RSK	
	iii.	Primary Damper			0828,0824,0660,0817		0679,0574,0684,0637		KNORR	
	iv.	Secondary damper			1332,1516		1279,1268		GEREP	
	v.	Lateral Damper			0336		0335		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			A9217/688,A9320/688 A9218/688,A9323/688		A9216/688,A9321/688 A9219/688,A9322/688		KBI	
	viii.	Brake Disc							KBI	
	ix.	Ball joint Control arm							GMT	
	x.	Lateral Bump stop							MGN,GMT	
	xi.	Traction center make							SARITA, EMSON	
	xii.	Traction lever make							SARITA	
	xiii.	Ball joint traction lever							GMT	
	xiv.	Traction centre elastic							SGA,GMT	
	xv.	Secondary rubber pad							TESPACK	
	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			



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6031	DISPATCH DATE			18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163173
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
v)	CBC (Make)	SANROK		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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			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	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			FAVELLY		
iii.	BIO-TOILET			RAIL FAB+MK		
iv.	SEATS			SUTLEJ		
v.	BODY SIDE DOORS			KNOR BREMES		
vi.	SALOON COMPTT DOORS			KALSI		
vii.	VESTIBULE SLIDING DOOR			HANSPAL		
viii.	WATER TANKS			(AUX)SHIVALIK & (U/S) AMIT		
ix	UIC VESTIBULE			HUBNER INTERFACE		
x	LUGGAGE RACK			RAIL TECH		
XI	FLOOR BOARD			NARBADA		
XII	PVC			RESPONSIVE		
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 . 7.Vacuum Toilet System supply and fitted on LAV. NO.1 by M/S. OASIS FABRICATION JUD Contact No.09357207009					



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6031	NR	LWSCZAC	163173	14-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176226			176227				
	ii.	Frame No.	FIAT-5452			FIAT-5451				
	iii.	Bolster No.	6507-P			6725-P				
	iv.	Axle No.	S-9876		R-2915		S-9172		S-9244	
	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	917.00	916.00	916.50	916.00	916.50	916.00	916.00
	vii.	Wheel Disc No.	00176/6048	00020/6048	00134/6179	00147/6216	00131/6048	00078/6048	00004/6048	00081/
	viii.	R.B. Nos.	77347	75985	77315	77346	77438	76278	73257	73377
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	RSK-16-6-649	RSK-16-5-1119	RSK-16-6-980	RSK-16-5-1810	RSK-16-6-494	RSK-16-3-1279	RSK-16-6-985	RSK-16-3-1331	
ii.	Ht. at test load	508	468	507	468	512	466	512	467	
iii.	Align .deviation	4	33	4	29	16	32	14	28	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			36836,36720,36893,36641		36895,36918,36744,36923		KONI	
	iv.	Secondary damper			0395,0139		0140,200		SV	
	v.	Lateral Damper			0465		239		SV	
	vi.	Brake cylinder & Caliper			F16247/R00,F16262/R00 F16245/R00,F16260/R00		F16207/R00,F16261/R00 F16213/R00,F16257/R00		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6014	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163175	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1104	1104			
v)	CBC (Make)	FAVELLY	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 ²	6 –10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00			
		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			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT			KBI			
iii.	BIO-TOILET			RAIL FAB+MK			
iv.	SEATS			SUTLEJ			
v.	BODY SIDE DOORS			KNOR BREMES			
vi.	SALOON COMPTT DOORS			KALSI			
vii.	VESTIBULE SLIDING DOOR			HANSPAL			
viii.	WATER TANKS			(AUX)SHIVALIK & (U/S) MANOJ			
ix	UIC VESTIBULE			HUBNER INTERFACE			
x	LUGGAGE RACK			RAIL TECH			
XI	FLOOR BOARD			NARBADA			
XII	PVC			RESPONSIVE			
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 . 7.Vacuum Toilet System supply and fitted on LAV. NO.1 by M/S. OASIS FABRIACATION Contact 0935727009						



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6014	NR	LWSCZAC(HS)	163175	07-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166572				166573			
	ii.	Frame No.	FIAT-4956				FIAT-4942			
	iii.	Bolster No.	5901-PS				5903-PS			
	iv.	Axle No.	N-0518		N-6293		N-5724		N-1004	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	13352-00248	13350-00163	13352-00309	13350-00048	13350-00123	13354-00064	13353-00129	13353-00080
	vii.	R.B. Nos.	05497	05701	05226	05250	05029	05055	05330	04845
	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.	RSK-15-3-036	RSK-15-4-113	RSK-15-3-029	RSK-15-4-132	RSK-15-3-031	RSK-15-4-107	RSK-15-3-049	RSK-15-4-123	
ii.	Ht. at test load	509	468	509	466	510	467	510	467	
iii.	Align .deviation	16	40	16	42	10	43	14	43	
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			RSK-14-05		RSK-14-05		RSK	
	iii.	Primary Damper			1268,1270,1285,1283		1344,1253,1289,1334		KNORR	
	iv.	Secondary damper			0034,0170		0082,0199		SV	
	v.	Lateral Damper			0083		0475		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			J8690/688,J-9696/688 J9691/688,J9697/688		J9692/688,J9695/688 J9396/688,J9694/688		KBI	
	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							TESPACK	
	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			



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6030	DISPATCH DATE			18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163174
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
v)	CBC (Make)	ESCORT	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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			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	
8.2	APPLICATION OF PCN-123		SATISFACTORY			
8.3	INSUALTION		SATISFACTORY			
9.	Traceability of Furnishing Items:			Make		
i.	BRAKE EQUIPMENT			FAVELLY		
iii.	BIO-TOILET			RAIL FAB+ JSL LIFE STYL		
iv.	SEATS			SUTLEJ		
v.	BODY SIDE DOORS			KNOR BREMES		
vi.	SALOON COMPTT DOORS			KALSI		
vii.	VESTIBULE SLIDING DOOR			HANSPAL		
viii.	WATER TANKS			(AUX)SHIVALIK & (U/S) SHIVALIK		
ix	UIC VESTIBULE			HUBNER INTERFACE		
x	LUGGAGE RACK			RAIL TECH		
XI	FLOOR BOARD			NARBADA		
XII	PVC			RESPONSIVE		
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .					



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11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		6030	NR	LWSCZAC	163174	20-03-2017			
11.1	Wheel & Axle Details:								
i.	Bogie No.	176231			176249				
ii.	Frame No.	FIAT-5454			FIAT-5580				
iii.	Bolster No.	6720-P			6762-P				
iv.	Axle No.	S-9826		N-0292		R-2945		S-9804	
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.	916.50	916.50	916.00	916.50	917.00	917.00	918.00	918.00
vii.	Wheel Disc No.	00191/6196	00137/6196	00149/6225	00034/6203	00135/6069	00029/6131	00109/6196	00161/6196
viii.	R.B. Nos.	76722	73497	73248	77124	76718	72987	76644	87568
ix.	R.B. Make	SKF		SKF		SKF		SKF	
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.	RSK-16-6-504	RSK-16-5-1099	RSK-16-6-387	RSK-16-5-1367	RSK-16-6-352	RSK-16-5-1273	RSK-16-6-487	RSK-16-5-1282
ii.	Ht. at test load	512	467	512	468	512	465	510	463
iii.	Align .deviation	15	44	12	38	12	35	15	36
11.3	Items traceability:								
	Sno.	Item						Make	
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK
	ii.	Primary inner Spring			G-12-06		G-12-06		GF
	iii.	Primary Damper			37419,37356,37422,37397		37080,36844,36822,36929		KONI
	iv.	Secondary damper			0675,0793		0200,0666		SV
	v.	Lateral Damper			0446		0590		SV
	vi.	Brake cylinder & Caliper			F16248/R00,F16253/R00 F16212/R00,F16254/R00		F16244/R00,F16258/R00 F16246/R00,F16008/R00		FTI
	vii.	Brake Disc							FTI
	viii.	Control arm top							KUMAR
	ix.	Control arm bottom							KUMAR
	x.	Top Rubber Pad							SGA
	xi.	Vertical Bump Stop							GMT
	xii.	Ball joint Control arm							MGN
	xiii.	Lateral Bump stop							GMT
	xiv.	Traction center make							SARITA
	xv.	Traction lever make							SARITA
	xvi.	Ball joint traction lever							SGA
	xvii.	Traction centre elastic							SGA
	xviii.	Secondary rubber pad							TECSPAK
	x ix.	Rubber spring							GMT
	x x.	Anti roll bar make							SARITA, EMSON
	x xi.	Ball joint roll link							SARITA
	x xii.	Fork make							SARITA
11.4	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.	6028	DISPATCH DATE				18.05. 17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163172	
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)	CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	CBC (Make)	SANROK		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 ²	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			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	87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:				Make		
i.	BRAKE EQUIPMENT				FAVELLY		
iii.	BIO-TOILET				RAIL TECH+ ORIENTAL PVT.LT		
iv.	SEATS				SUTLEJ		
v.	BODY SIDE DOORS				KNOR BREMES		
vi.	SALOON COMPTT DOORS				KALSI		
vii.	VESTIBULE SLIDING DOOR				HANSPAL		
viii.	WATER TANKS				(AUX)SHIVALIK & (U/S) SHIVALIK		
ix	UIC VESTIBULE				HUBNER INTERFACE		
x	LUGGAGE RACK				RAIL TECH		
XI	FLOOR BOARD				NARBADA		
XII	PVC				RESPONSIVE		
10.	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Breμες contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .					



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6028	NR	LWSCZAC	163172	16-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176235			176236				
	ii.	Frame No.	FIAT-5500			FIAT-5528				
	iii.	Bolster No.	6743-GT			6747-GT				
	iv.	Axle No.	N-6957		R-3119		N-0387		R-3300	
	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.	918.00	918.00	918.00	918.00	917.50	917.50	918.00	918.00
	vii.	Wheel Disc No.	00097/6212	00185/6212	00048/6108	00033/6067	00064/6067	00090/6193	00125/6103	00065/6067
	viii.	R.B. Nos.	73118	73205	87743	88211	73129	79693	76492	77121
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	RSK-16-7-187	RSK-16-5-1317	RSK-16-6-464	RSK-16-5-964	RSK-16-6-166	RSK-16-5-1381	RSK-16-7-316	RSK-16-5-1265
	ii.	Ht. at test load	512	467	511	467	512	468	510	468
	iii.	Align .deviation	15	35	14	33	4	33	3	31
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-17-01		FSK-17-01		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			36931,36941,36917,36670		36943,36741,36940,36945		KONI	
	iv.	Secondary damper			0293,0161		0253,0257		SV	
	v.	Lateral Damper			0454		0564		SV	
	vi.	Brake cylinder & Caliper			F16237/R00,F16279/R00 F16259/R00,F16277/R00		F16239/R00,F16269/R00 F16257/R00,F16268/R00		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TESPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							EMSON	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6003	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163166	
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)	CBC Height		Specified : 1105 +0 /-15 mm		1104	1104	
v)	CBC (Make)		ESCORT		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 ²		6 -10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			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	90/87	
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT				KBI		
iii.	BIO-TOILET				RAIL TECH+ JSL LIFE STYL LT		
iv.	SEATS				SUTLEJ		
v.	BODY SIDE DOORS				KNOR BREMES		
vi.	SALOON COMPTT DOORS				KALSI		
vii.	VESTIBULE SLIDING DOOR				HANSPAL		
viii.	WATER TANKS				(AUX)SHIVALIK & (U/S) SHIVALIK		
ix	UIC VESTIBULE				HUBNER INTERFACE		
x	LUGGAGE RACK				RAIL TECH		
XI	FLOOR BOARD				TAYAL		
XII	PVC				RESPONSIVE		
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .						



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6003	NR	LWSCZAC(H S)	163166	11-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166595				166596			
	ii.	Frame No.	FIAT-4899				FIAT-4882			
	iii.	Bolster No.	5740-VT				5912-PS			
	iv.	Axle No.	N-0932		K-5816		N-0323		N-0852	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	13353-00028	13352-00106	13351-00130	13109-00267	13352-00241	13352-00161	13351-00032	13352-00070
	vii.	R.B. Nos.	01518	05369	01242	04789	04629	04627	04925	07062
	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.	RSK-15-4-050	RSK-15-3-092	RSK-15-4-30	RSK-15-3-052	RSK-15-4-039	RSK-15-3-007	RSK-15-4-041	RSK-15-3-04	
ii.	Ht. at test load	512	464	512	464	508	466	508	465	
iii.	Align .deviation	9	41	10	43	4	28	5	31	
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	RSK-14-05			RSK-14-05		RSK		
	iii.	Primary Damper	1353,1274,1361,1441			1314,1404,1326,1261		KNORR		
	iv.	Secondary damper	389,507			330,463		KNORR		
	v.	Lateral Damper	136			127		KNORR		
	vi.	Yaw Damper						NIL		
	vii.	Brake cylinder & Caliper	J9213/688,J9325/688 J9212/688,J9324/688			J9215/688,J9326/688 J9214/688,J9327/688		KBI		
	viii.	Brake Disc						KBI		
	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						GMT		
	xiv.	Traction centre elastic						GMT		
	xv.	Secondary rubber pad						TESPACK		
	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				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6007	DISPATCH DATE				18.05. 17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163170	
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)	CBC Height	Specified : 1105 +0 /-15 mm		1102	1104		
v)	CBC (Make)	ESCORT		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 ²		6 -10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			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		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
i.	BRAKE EQUIPMENT			FAVELLY			
iii.	BIO-TOILET			RAIL TECH+ ORIENTAL PVT LT			
iv.	SEATS			SUTLEJ			
v.	BODY SIDE DOORS			KNOR BREMES			
vi.	SALOON COMPTT DOORS			KALSI			
vii.	VESTIBULE SLIDING DOOR			HANSPAL			
viii.	WATER TANKS			(AUX)MANOJ & (U/S) SHIVALIK			
ix	UIC VESTIBULE			HUBNER INTERFACE			
x	LUGGAGE RACK			RAIL TECH			
XI	FLOOR BOARD			NARBADA			
XII	PVC			RESPONSIVE			
10.	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2. CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3. Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5. Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6. Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .					



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6007		NR		LWSCZAC(HS)		163170		04-08-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166625					166626				
	ii.	Frame No.	FIAT-4984					FIAT-4975				
	iii.	Bolster No.	6014-VT					6002-VT				
	iv.	Axle No.	N-5729		P-9748			N-6080		N-0321		
	v.	Wheel Dia.	916.50	916.00	917.00	917.00	916.00	916.00	917.00	916.50		
	vi.	Wheel Disc No.	13352-00093	13354-00240	13350-00127	13352-00032	13350-00120	13350-00135	13350-00051	13354-00052		
	vii.	R.B. Nos.	02610	03292	01546	02253	02406	03474	00856	03472		
	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.	RSK-15-3-47	FSK-16-4-51	RSK-15-3-57	FSK-16-4-46	RSK-15-3-45	FSK-15-3-45	RSK-15-3-56	FSK-16-4-43			
ii.	Ht. at test load	508	463	507	463.50	508	464	508	465			
iii.	Align .deviation	6	7	6	9	9	9	10	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			L&S-12-5			L&S-12-5			L&S	
	ii.	Primary inner Spring			L&S-13-2			L&S-13-2			L&S	
	iii.	Primary Damper			1590,1557,1774,1559			1487,1765,1596,1606			KNORR	
	iv.	Secondary damper			028,022			032,024			GABRIEL	
	v.	Lateral Damper			001			019			GABRIEL	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			E16136/R00,F16133/R00 E16129/R00,E16128/R00			F16130/R00,F16132/R00 C16132/R00,F16140/R00			FTI	
	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									GMT	
	xv.	Secondary rubber pad									TESPACK	
	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					

LWSCZAC/HS-6007



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6001	DISPATCH DATE				18.05. 17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163164	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105		1105		
v)	CBC (Make)	ESCORT		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 ²	6 -10 sec	6 Sec			
		Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00			
		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	87/88/89			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:		Make				
i.	BRAKE EQUIPMENT			KBI			
iii.	BIO-TOILET			RAIL TECH+ JSL LIFE STYL			
iv.	SEATS			SUTLEJ			
v.	BODY SIDE DOORS			KNOR BREMES			
vi.	SALOON COMPTT DOORS			CONCEPT			
vii.	VESTIBULE SLIDING DOOR			HANSPAL			
viii.	WATER TANKS			(AUX)KUTEER & (U/S) SHIVALIK			
ix	UIC VESTIBULE			HUBNER INTERFACE			
x	LUGGAGE RACK			RAIL TECH			
XI	FLOOR BOARD			TAYAL			
XII	PVC			RESPONSIVE			
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2. CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3. Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5. Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6. Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .						



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11.	Bogie Details:		Shell No.	Railway	Type		Coach No.	Dispatch Date		
			6001	NR	LWSCZAC(HS)		163164	27-06-2016		
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166535				166536			
	ii.	Frame No.	FIAT-4911				FIAT-4884			
	iii.	Bolster No.	5885-PS				5881-PS			
	iv.	Axle No.	N-0974		K-3947		N-0621		N-0505	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	13354-00133	13350-00191	13350-00199	13354-00130	7270-00016	7270-00034	7279-00160	7270-00100
	vii.	R.B. Nos.	05015	03425	03284	04145	02921	05034	03995	.5436
	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.	RSK-15-3-04	RSK-15-3-015	RSK-15-3-015	RSK-15-3-04	RSK-15-3-017	RSK-15-3-126	RSK-15-3-018	RSK-16-3-138	
ii.	Ht. at test load	512	468	512	468	512	463	512	466	
iii.	Align .deviation	8	37	11	38	11	15	13	18	
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			RSK-14-5		RSK-14-5		RSK	
	iii.	Primary Damper			739,743,652,717		751,735,748,742		KNORR	
	iv.	Secondary damper			502,412		264,265		KNORR	
	v.	Lateral Damper			272		268		KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper			J9230/93688,J9197/93688 J9231/93688,J9196/93688		J9228/93688,J9198/93688 J9229/93688,J9199/93688		KBI	
	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							TECSPACK	
	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			



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6006	DISPATCH DATE				18.05. 17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.		163169
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)	CBC Height	Specified : 1105 +0 /-15 mm		1105	1105	
	v)	CBC (Make)	FAVELLY		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 ²		6 -10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	i.	BRAKE EQUIPMENT			KBI		
	iii.	BIO-TOILET			RAIL TECH+ JSL LIFE STYL		
	iv.	SEATS			SUTLEJ		
	v.	BODY SIDE DOORS			KNOR BREMES		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			HANSPAL		
	viii.	WATER TANKS			(AUX)MANOJ & (U/S) SHIVALIK		
	ix	UIC VESTIBULE			HUBNER INTERFACE		
	x	LUGGAGE RACK			RAIL TECH		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .					



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6006		NR		LWSCZAC(HS)		163169		13-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166709						166710			
	ii.	Frame No.	FIAT-4896						FIAT-4889			
	iii.	Bolster No.	6037-VT						6017-VT			
	iv.	Axle No.	N-5959			N-6723			N-0941		K-3039	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.50	917.00		
	vi.	Wheel Disc No.	13109-00019	13354-00024	13352-00014	13350-00166	13350-00044	13350-00207	13350-00168	13354-00031		
	vii.	R.B. Nos.	03249	03376	01218	03846	03873	02416	03284	02441		
	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.	RSK-16-4-624	GBD-16-6-89	RSK-16-4-638	GBD-16-6-108	RSK-16-4-749	GBD-16-6-107	RSK-16-4-613	GBD-16-6-111			
ii.	Ht. at test load	508	468	509	464	511	464	512	467			
iii.	Align .deviation	3	0	5	1	17	6	18	6			
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			RSK-15-3			RSK-15-3			RSK	
	iii.	Primary Damper			1747,1544,1792,1640			1524,1696,1716,1691			KNORR	
	iv.	Secondary damper			0398,0589			0566,0184			SV	
	v.	Lateral Damper			252			188			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			J9227/688,J8883/688 J9226/688,J9332/688			J9224/688,J9201/688 J9225/688,J9200/688			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									GMT,MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									EMSON, SARITA	
	xix.	Fork make									SARITA	
11.4	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.	6005	DISPATCH DATE			18.05. 17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163168
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1105	
	v)	CBC (Make)	ESCORT	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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			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	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:		Make			
	i.	BRAKE EQUIPMENT	KBI			
	iii.	BIO-TOILET	RAIL TECH+ JSL LIFE STYL			
	iv.	SEATS	SUTLEJ			
	v.	BODY SIDE DOORS	KNOR BREMES			
	vi.	SALOON COMPTT DOORS	KALSI			
	vii.	VESTIBULE SLIDING DOOR	HANSPAL			
	viii.	WATER TANKS	(AUX)MANOJ & (U/S) SHIVALIK			
	ix	UIC VESTIBULE	HUBNER INTERFACE			
	x	LUGGAGE RACK	RAIL TECH			
	XI	FLOOR BOARD	TAYAL			
	XII	PVC	RESPONSIVE			
10.	10.1	Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2. CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3. Infotainment System Supplied and Commissioned by M/S. Megh Doot Media New Delhi (Contact No.09810772892) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5. Vinyl Wrapping supplied and fitted by. M/S. Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6. Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .				



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6005	NR	LWSCZAC(HS)	163168	11-07-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166591				166592			
	ii.	Frame No.	FIAT-4963				FIAT-4960			
	iii.	Bolster No.	5914-PS				5909-PS			
	iv.	Axle No.	P-9379		N-0662		P-9506		N-0537	
	v.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	13350-00037	13353-00178	13353-00123	13353-00033	13353-00066	13350-00059	13353-00076	13353-00115
	vii.	R.B. Nos.	05668	04573	01715	04889	01763	01103	01465	05684
	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.	RSK-16-1-03	RSK-15-4-54	RSK-16-1-06	RSK-15-4-017	RSK-15-3-60	RSK-15-4-04	RSK-15-3-37	RSK-15-4-411	
ii.	Ht. at test load	509	466	509	464	507	466	509	464	
iii.	Align .deviation	25	43	28	40	3	38	5	39	
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	RSK-14-05			RSK-14-05			RSK	
	iii.	Primary Damper	1414,1363,1446,1335			1263,1428,1246,1279			KNORR	
	iv.	Secondary damper	0503,0515			0536,0521			KNORR	
	v.	Lateral Damper	0355			235			KNORR	
	vi.	Yaw Damper							NIL	
	vii.	Brake cylinder & Caliper	J9211/688,J9319/688 J9209/688,J9318/688			J9208/688,J9316/688 J9210/688,J9317/688			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,GMT	
	xiv.	Traction centre elastic							GMT	
	xv.	Secondary rubber pad							TESPACK	
	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				

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6027	DISPATCH DATE			18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163171
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)	CBC Height	Specified : 1105 +0 /-15 mm	1100	1105	
	v)	CBC (Make)	SANROK	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 ²	6 –10 sec	6 Sec	
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00	
			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	
	8.2	APPLICATION OF PCN-123	SATISFACTORY			
	8.3	INSUALTION	SATISFACTORY			
9.	Traceability of Furnishing Items:		Make			
	i.	BRAKE EQUIPMENT	FAVELLY			
	iii.	BIO-TOILET	RAIL TECH+ ORIENTAL PVT.			
	iv.	SEATS	SUTLEJ			
	v.	BODY SIDE DOORS	KNOR BREMES			
	vi.	SALOON COMPTT DOORS	KALSI			
	vii.	VESTIBULE SLIDING DOOR	HANSPAL			
	viii.	WATER TANKS	(AUX)SHIVALIK & (U/S) AMIT			
	ix	UIC VESTIBULE	HUBNER INTERFACE			
	x	LUGGAGE RACK	RAIL TECH			
	XI	FLOOR BOARD	NARBADA			
	XII	PVC	RESPONSIVE			
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 . 7.LAV NO. 1 fitted with Vacuum toilet system by M/S.JAIN VINIMAY CALCUTTA No.09814787247					



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Rail Coach Factory , Kapurthala

11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6027	NR	LWSCZAC	163171	16-03-2017			
11.1	Wheel & Axle Details:									
i.	Bogie No.	176232				176233				
ii.	Frame No.	FIAT-5535				FIAT-5557				
iii.	Bolster No.	6749-GT				6757-P				
iv.	Axle No.	S-9448		N-0946		S-9825		K-6673		
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	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
vii.	Wheel Disc No.	00148/6196	00091/6193	00180/6191	00141/6191	00179/6191	00092/6191	00070/6212	00033/6191	
viii.	R.B. Nos.	73124	77205	88253	77102	73130	77130	76607	73128	
ix.	R.B. Make	SKF		SKF		SKF		SKF		
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.	RSK-16-6-86	RSK-16-5-1287	RSK-16-6-472	RSK-16-5-1359	RSK-16-6-512	RSK-16-5-1285	RSK-16-6-307	RSK-16-5-1371	
ii.	Ht. at test load	508	468	507	465	511	467	512	468	
iii.	Align .deviation	10	35	11	39	9	32	11	35	
11.3	Items traceability:									
	Sno.	Item					Make			
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			36745,36832,36681,36666		36634,36933,36656,36633		KONI	
	iv.	Secondary damper			0094,0018		0289,0298		SV	
	v.	Lateral Damper			0451		0586		SV	
	vi.	Brake cylinder & Caliper			F16256/R00,F16278/R00 F16260/R00,G16281/R00		F16208/R00,F16264/R00 F16211/R00,F16262/R00		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	x ix.	Rubber spring							GMT	
	x x.	Anti roll bar make							EMSON	
	x xi.	Ball joint roll link							SARITA	
	x xii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):					NIL			
	ii.	Deviations (if any):					NIL			

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6029	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163177	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1102	1104		
	v)	CBC (Make)	SANROK	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT		FAVELLY			
	iii.	BIO-TOILET		RAIL TECH+ JSL			
	iv.	SEATS		SUTLEJ			
	v.	BODY SIDE DOORS		KNOR BREMES			
	vi.	SALOON COMPTT DOORS		KALSI			
	vii.	VESTIBULE SLIDING DOOR		HANSPAL			
	viii.	WATER TANKS		(AUX)SHIVALIK & (U/S) MANOJ			
	ix	UIC VESTIBULE		HUBNER INTERFACE			
	x	LUGGAGE RACK		RAIL TECH			
	XI	FLOOR BOARD		NARBADA			
	XII	PVC		RESPONSIVE			
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2.CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3.Infotainment System Supplied and Commissioned by M/S M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5.Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6.Intercar Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .						



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6029	NR	LWSCZAC	163177	18-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176243			176244				
	ii.	Frame No.	FIAT-5567			FIAT-5581				
	iii.	Bolster No.	6372-P			6027-VT				
	iv.	Axle No.	T-0032		S-9834		R-2411		S-9603	
	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.	916.00	916.50	918.00	917.50	916.50	917.00	917.00	917.00
	vii.	Wheel Disc No.	00169/6021	00119/7260	00073/6196	00037/6196	00095/6018	00133/6137	00183/6018	00094/6201
	viii.	R.B. Nos.	80148	77396	77807	86060	76721	72973	72972	73123
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	RSK-16-6-155	RSK-16-5-1305	RSK-16-6-744	RSK-16-5-1323	RSK-16-6-654	RSK-16-5-1098	RSK-16-6-581	RSK-16-5-1284	
ii.	Ht. at test load	507	468	507	468	510	466	508	467	
iii.	Align .deviation	16	30	12	25	17	28	16	27	
11.3	Items traceability:									
	Sno.	Item						Make		
	i.	Primary Outer Spring			FSK-17-1		FSK-17-1		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			36631,36920,36646,37050		36650,36675,36934,36936		KONI	
	iv.	Secondary damper			779,0785		596,775		SV	
	v.	Lateral Damper			0460		0488		SV	
	vi.	Brake cylinder & Caliper			F16242/R00,F16266/R00 F16241/R00,F16251/R00		F16240/R00,F16276/R00 F16238/R00,F16780/R00		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				

ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6026	DISPATCH DATE				18.05.17
2.	Railway	NR	Type	LWSCZAC/HS	Coach No.	163176	
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)	CBC Height	Specified : 1105 +0 /-15 mm	1105	1104		
	v)	CBC (Make)	SANROK	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 ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			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		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	i.	BRAKE EQUIPMENT			FAVELLY		
	iii.	BIO-TOILET			RAIL TECH+ JSL		
	iv.	SEATS			SUTLEJ		
	v.	BODY SIDE DOORS			KNOR BREMES		
	vi.	SALOON COMPTT DOORS			KALSI		
	vii.	VESTIBULE SLIDING DOOR			HANSPAL		
	viii.	WATER TANKS			(AUX)SHIVALIK & (U/S) AMIT		
	ix	UIC VESTIBULE			HUBNER INTERFACE		
	x	LUGGAGE RACK			RAIL TECH		
	XI	FLOOR BOARD			NARBADA		
	XII	PVC			RESPONSIVE		
10.	10.1 Modification / Trail (if any): 1. Fire/Smoke Detection with Alarm System as per RDSO Spec No. RDSO/2013/CG-09 Rev:03, Supplied and Commissioned by M/S. Sanrok , Delhi. Contact No. 9810566723. 2. CCTV Surveillance System as per ICF Specification No. ICF/MD/SPEC-269,issue status:01,Rev 05 Supplied and Commissioned by M/S Punjab Radio Jalandhar Punjab Contact No. 9815068700. 3. Infotainment System Supplied and Commissioned by M/S M/S. ACTIVE Media ADI (Contact No.09873639552) 4. Automatic Body Side Door supply and commissioned by M/S. Knor Bremes contact No09810428390) 5. Vinyl Wrapping supplied and fitted by. M/S.Techno Expert Jalandhar , Punjab , Contact No. 9317550000 6. Inter-car Gang way supply and commissioned by M/S. Hubner Interface Contact No. 08027735154/5155 .						



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6026	NR	LWSCZAC	163176	15-03-2017			
11.1	Wheel & Axle Details:									
	i.	Bogie No.	176225				176230			
	ii.	Frame No.	FIAT-5450				FIAT-5558			
	iii.	Bolster No.	6638-P				6651-GT			
	iv.	Axle No.	R-3451		R-2701		K-6446		R-2412	
	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	916.50	916.50	917.00	917.00	917.00	917.00
	vii.	Wheel Disc No.	00085/6180	00149/6219	00011/6188	00138/6188	00148/6203	00029/6203	00166/6203	00155/6203
	viii.	R.B. Nos.	77105	76211	76361	77399	76186	87576	76383	73182
	ix.	R.B. Make	SKF		SKF		SKF		SKF	
	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.	RSK-16-3-813	RSK-16-5-1080	RSK-16-7-705	RSK-16-5-1291	RSK-16-6-444	RSK-16-5-1344	RSK-16-6-531	RSK-16-5-1295	
ii.	Ht. at test load	509	465	508	467	511	467	509	468	
iii.	Align .deviation	12	42	10	40	8	39	7	32	
11.3	Items traceability:									
	Sno.	Item							Make	
	i.	Primary Outer Spring			FSK-16-11		FSK-16-11		FSK	
	ii.	Primary inner Spring			G-12-6		G-12-6		GF	
	iii.	Primary Damper			36548,36695,36924,36709		36926,36724,36746,36897		KONI	
	iv.	Secondary damper			268,269		023,280		SV	
	v.	Lateral Damper			0556		0452		SV	
	vi.	Brake cylinder & Caliper			F16210/R00,F16252/R00 F16209/R00,F16255/R00		F16255/R00,F16267/R00 F16258/R00,F16265/R00		FTI	
	vii.	Brake Disc							FTI	
	viii.	Control arm top							KUMAR	
	ix.	Control arm bottom							KUMAR	
	x.	Top Rubber Pad							SGA	
	xi.	Vertical Bump Stop							GMT	
	xii.	Ball joint Control arm							MGN	
	xiii.	Lateral Bump stop							GMT	
	xiv.	Traction center make							EMSON	
	xv.	Traction lever make							SARITA	
	xvi.	Ball joint traction lever							SGA	
	xvii.	Traction centre elastic							SGA	
	xviii.	Secondary rubber pad							TECSPAK	
	xix.	Rubber spring							GMT	
	xx.	Anti roll bar make							SARITA	
	xxi.	Ball joint roll link							SARITA	
	xxii.	Fork make							SARITA	
11.4	i.	Modification / Trial (if any):				NIL				
	ii.	Deviations (if any):				NIL				