



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5006	DISPATCH DATE				10.09.2015
2.	Railway	ECR	Type	LS3	Coach No.	15492	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	Buffer/CBC (Make )	FAIVELEY		Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	ADVANCE	85/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT					FAIVELEY	
ii	SEAT & BERTH					SAVITRI	
lii	BODY SIDE DOORS					JBM	
lv	WATER TANKS					RAIL FAB	
v	FLOOR BOARD					TAYAL	
VI	PVC					RESPONSIVE	
Vii	LP SHEET					NK	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5006		ECR		LS3		15492		29-08-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156542						156543			
	ii.	<b>Frame No.</b>	FIAT-4211						FIAT-4205			
	iii.	<b>Bolster No.</b>	134-GT/ASR						4891-VT			
	iv.	<b>Axle No.</b>	128554/989		126453/481		125946/477		129221/992			
	v.	<b>Wheel Dia.</b>	917.00	917.00	917.00	917.00	916.00	916.00	917.00	917.00		
	vi.	<b>Wheel Disc No.</b>	6112-00065	6198-00137	6212-00043	6197-00127	6196-00157	06149-00001	6149-00046	6149-00047		
	vii.	<b>R.B. Nos.</b>	04109	03343	03368	03363	06136	03921	02885	03366		
	viii.	<b>R.B. Make</b>	TIM		TIM		TIM		TIM			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-11-1111	DN-14-10-742	DN-14-11-1114	DN-14-11-805	DN-14-11-1010	DN-14-09-716	DN-14-11-167	DN-14-11-844			
ii.	<b>Ht. at test load</b>	514	471	514	471	512	471	512	471			
iii.	<b>Align .deviation</b>	13	14	16	10	10	5	11	5			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			714,733,724,725			728,817,799,732			GEREP	
	iv.	Secondary damper			1356,1280			1380,1272			GEREP	
	v.	Lateral Damper			506			535			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			15052/600,15076/600,15072/600,15079/600			15001/600,15007/600,15014/600,15003/600			FTI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									GMT	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									GMT,MGN	
	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, EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	4082	DISPATCH DATE				14.09.2015
2.	Railway	ECR	Type	LS3	Coach No.	15495	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1104	1102		
v)	Buffer/CBC (Make )	ESCORTS		Fiba Device	NA		
7.	Air Brake Testing:	Description			Specified	Observed	
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec		
		Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	ADVANCE	89/89			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT			KBI			
ii	SEAT & BERTH			SAVITRI			
lii	BODY SIDE DOORS			JBM			
lv	WATER TANKS			RAIL FAB, RUBICONE			
v	FLOOR BOARD			TAYAL			
VI	PVC			RESPONSIVE			
Vii	LP SHEET			NA			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	12.	<b>Bogie Details:</b>	<b>Shell No.</b>	<b>Railway</b>	<b>Type</b>	<b>Coach No.</b>	<b>Dispatch Date</b>				
			4082	EC	LS3	15495/C	10-08-2015				
11.1	12.1	<b>Wheel &amp; Axle Details:</b>	<b>PP Side</b>				<b>NPP Side</b>				
		i. <b>Bogie No.</b>	156406				156464				
		ii. <b>Frame No.</b>	FIAT-4067				SCI/FM-171				
		iii. <b>Bolster No.</b>	4341-VT				127/GT-ASR				
		iv. <b>Axle No.</b>	RWF-109911		C-4338		129351/982		128979/986		
		v. <b>Wheel Dia.</b>	916.00	916.00	916.50	916.00	916.50	916.00	916.00	916.00	
		vi. <b>Wheel Disc No.</b>	061-11610	222-11605	008-63309	315-63307	045-10579	256-63309	041-63309	313-63309	
		vii. <b>R.B. Nos.</b>	04105	04236	04312	03590	30089	02987	30266	16778	
		viii. <b>R.B. Make</b>	TIMKEN		TIMKEN		SKF		SKF		
		ix. <b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING								
11.2	12.2	<b>Secondary suspension load deflection Values:</b>									
		<b>Description</b>	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>
					Outer	Inner	Outer	Inner	Outer	Inner	Outer
i.	i.	<b>Make &amp; nos.</b>	DN-14-11-1153	DN-14-12-748	DN-14-11-1067	DN-14-5-611	DN-14-11-1145	DN-14-12-747	DN-14-11-1065	DN-14-5-602	
ii.	ii.	<b>Ht. at test load</b>	513	471	513	469	514	471	513	469	
iii.	iii.	<b>Align .deviation</b>	14	14	13	13	14	14	14	13	
11.3	12.3	<b>Items traceability:</b>									
		<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>		<b>NPP side Bogie</b>		<b>Make</b>	
		i.	Primary Outer Spring			G-14-3		G-14-3		GF	
		ii.	Primary inner Spring			G-13-11		G-14-3		GF	
		iii.	Primary Damper			24488,24422,24779,24651		24611,24634,24632,23503		KONI	
		iv.	Secondary damper			1243,912		1301,1383		GEREP	
		v.	Lateral Damper			2772		4		Koni,GEREP	
		vi.	Yaw Damper							NIL	
		vii.	Brake cylinder & Caliper			1349/691,1431/691,1346/691,1429/691		1348/691,1428/691,1347/691,1430/691		KBI	
		viii.	Brake Disc							KBI	
		ix.	Ball joint Control arm							MGN	
		x.	Lateral Bump stop							GMT,MGN	
		xi.	Traction center make							SARITA	
		xii.	Traction lever make							SARITA	
		xiii.	Ball joint traction lever							GMT,MGN	
		xiv.	Traction centre elastic							SGA	
		xv.	Secondary rubber pad							TESPAK	
		xvi.	Rubber spring							GMT,W/BHAM	
		xvii.	Anti roll bar make							EMSON	
		xviii.	Ball joint roll link							SARITA	
		xix.	Fork make							EMSON	
11.4	12.4	i.	<b>Modification / Trial (if any):</b>				NIL				
		ii.	<b>Deviations (if any):</b>				NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	4083	DISPATCH DATE				25.09.2015
2.	Railway	ECR	Type	LS3	Coach No.	15494	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	Buffer/CBC (Make )	FAIVELEY		Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	ADVANCE	85/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
I	BRAKE EQUIPMENT					KBI	
ii	SEAT & BERTH					SAVITRI	
lii	BODY SIDE DOORS					JBM, MRC	
lv	WATER TANKS					RAIL FAB	
v	FLOOR BOARD					TAYAL	
VI	PVC					RESPONSIVE	
Vii	LP SHEET					NK	
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			4083		ECR		LS3		15494		16-09-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156678						156679			
	ii.	<b>Frame No.</b>	FIAT-4107						SCI-FM-240			
	iii.	<b>Bolster No.</b>	5085-GT						5088-GT			
	iv.	<b>Axle No.</b>	125889/477		126868/470		128808/990		128005/988			
	v.	<b>Wheel Dia.</b>	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6197-00183	6148-00038	6229-00069	6148-00037	6229-00070	6212-00096	6198-00059	6196-00181		
	vii.	<b>R.B. Nos.</b>	34428	21857	30231	21848	03158	22077	30225	22085		
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF			
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>				
		<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>	<b>Outer</b>	<b>Inner</b>			
i.	<b>Make &amp; nos.</b>	DN-14-10-595	G-14-12-177	DN-14-10-590	G-14-12-101	DN-14-10-582	G-14-12-112	DN-14-10-485	G-14-12-178			
ii.	<b>Ht. at test load</b>	514	470	512	471	513	471	515	472			
iii.	<b>Align .deviation</b>	11	6	12	8	8	9	8	12			
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			25332,25312,25129,25450			25453,25151,25302,25177			KONI	
	iv.	Secondary damper			1277,1262			1377,1357			GEREP	
	v.	Lateral Damper			630			446			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			1619/691,1702/691,1618/691,1701/691			1644/691,1715/691,1645/691,1716/691			KBI	
	viii.	Brake Disc									KBI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON, SARITA	
11.4	i.	<b>Modification / Trial (if any):</b>			NIL							
	ii.	<b>Deviations (if any):</b>			NIL							

LS3-4083



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	5004	DISPATCH DATE				01.10.2015
2.	Railway	ECR	Type	LS3	Coach No.	15496	
3.	Booked to	SSE/C&W/SPJ					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1104	1105		
	v)	Buffer/CBC (Make )	FAIVELEY	Fiba Device	NA		
7.	Air Brake Testing:	Description				Specified	Observed
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm <sup>2</sup>	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
	8.1	PAINT	PU PAINT	APEX	86/87		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:					Make	
	I	BRAKE EQUIPMENT			FAIVELEY		
	ii	SEAT & BERTH			SAVITRI		
	lii	BODY SIDE DOORS			JBM, MRC		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TAYAL		
	VI	PVC			RESPONSIVE		
	Vii	LP SHEET			NA		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	<b>Bogie Details:</b>		<b>Shell No.</b>		<b>Railway</b>		<b>Type</b>		<b>Coach No.</b>		<b>Dispatch Date</b>	
			5004		ECR		LGS		15496		16-09-2015	
11.1	<b>Wheel &amp; Axle Details:</b>		<b>PP Side</b>						<b>NPP Side</b>			
	i.	<b>Bogie No.</b>	156636						156637			
	ii.	<b>Frame No.</b>	FIAT-4234						FIAT-4245			
	iii.	<b>Bolster No.</b>	5007-VT						GT/ASR-145			
	iv.	<b>Axle No.</b>	128639/989		116186/377		129238/982		126577/481			
	v.	<b>Wheel Dia.</b>	916.50	916.00	916.50	916.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	<b>Wheel Disc No.</b>	6233-00063	6232-00072	6213-00051	6229-00110	6232-00112	6148-00048	6232-00113	6212-00047	6212-00047	6212-00047
	vii.	<b>R.B. Nos.</b>	02259	29526	02253	02270	01191	01165	01192	01192	01107	01107
	viii.	<b>R.B. Make</b>	SKF		SKF		SKF		SKF		SKF	
	ix.	<b>RB Type</b>	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	<b>Secondary suspension load deflection Values:</b>											
	<b>Description</b>		<b>Secondary 1</b>		<b>Secondary 2</b>		<b>Secondary 1</b>		<b>Secondary 2</b>			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	<b>Make &amp; nos.</b>	DN-14-11-1102	DN-14-10-801	DN-14-11-1031	DN-14-10-170	DN-14-11-1032	DN-14-10-717	DN-14-11-1092	DN-14-09-764	DN-14-11-1092	DN-14-09-764	DN-14-09-764
ii.	<b>Ht. at test load</b>	511	472	511	471	515	471	515	471	515	471	471
iii.	<b>Align .deviation</b>	9	10	12	11	9	9	11	12	11	12	12
11.3	<b>Items traceability:</b>											
	<b>Sno.</b>	<b>Item</b>			<b>PP Side Bogie</b>			<b>NPP side Bogie</b>			<b>Make</b>	
	i.	Primary Outer Spring			G-14-3			G-14-3			GF	
	ii.	Primary inner Spring			G-14-3			G-14-3			GF	
	iii.	Primary Damper			541,632,700,265			711,704,347,700			GEREP	
	iv.	Secondary damper			1362,1352			1292,1291			GEREP	
	v.	Lateral Damper			308			485			GEREP	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G15166/600,G15164/600,15163/600,G15165/600			G15105/600,G15120/600,G15162/600,G15107/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TESPAK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	<b>Modification / Trial (if any):</b>						NIL				
	ii.	<b>Deviations (if any):</b>						NIL				

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