



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8012	BOGIE NO	186671	/ 186672	DISPATCH DATE	09-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ		COACH NO	18634
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm		1098	1102	
	v)	Buffer/CBC (Make)			ESCORTS	ESCORTS	
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	86 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
	2	BIO-TOILET		OMAX			
	3	FLOOR BOARD		NARBADA			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	WATER TANKS		RAIL FAB			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		KALSI			
	9	SEAT & BEARTH		ADVANCE			
	10	LP SHEET		PL			
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8012		CR		LWSCZ		18634		09-JUL-18	
11.1	Wheel & Axle Details:											
i.	Bogie No.	186671					186672					
ii.	Frame No.	ECBT-576					ECBT-575					
iii.	Bolster No.	SHIVALIK-95					SHIVALIK-98					
iv.	Axle No.	K - 1422		Y - 8207			R - 3264		128795			
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	916.00	916.00			
vii.	Wheel Disc No.	09748-7NM6-TZ	01790-7NM5-TZ	30062-7TG0-TZ	01830-7NM8-TZ	31326-7TH1-TZ	32683-7TG0-TZ	00600-7NM5-TZ	30875-7SH4-TZ			
viii.	RB Nos.	77132	19037	82663	19055	79940	81907	22026	27006			
ix.	RB 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	Outer	Inner	
i.	Make & Nos.	FSK-17-8-107	FSK-17-5-09	FSK-17-8-96	FSK-17-5-182	FSK-17-8-99	FSK-17-5-230	FSK-17-8-41	FSK-17-5-249			
ii.	Ht. at test load	511.00	465.50	509.00	467.00	508.00	468.00	510.00	468.00			
iii.	Align. deviation	13.00	9.00	10.00	5.00	10.00	13.00	10.00	10.00			
Items traceability:												
11.3	Sno.	Item							Make			
i.	Primary Outer Spring	FSK-17-5			FSK-17-5			FSK				
ii.	Primary inner Spring	GBD-18-1			GBD-18-1			GBD				
iii.	Primary Damper	14358, 14361, 14195, 14188			14187, 14034, 14037, 14030			GABRIEL				
iv.	Secondary Damper	1066, 1149			527, 811			SV				
v.	Lateral Damper	200			166			ESCORTS				
vi.	Break cylinder & Caliper	D18234-600,D18281-600, D18123-600,D18170-600			C18517-600,D18140-600, C18518-600,D18142-600			FTI				
vii.	Break Disc							KBI				
viii.	Contral arm top							RV				
ix.	Control arm bottom							RV				
x.	Top rubber Pad							PRAG				
xi.	Vertical Bump Stop							GMT				
xii.	Ball Joint Control arm							AVADH				
xiii.	Lateral Bump stop							GMT				
xiv.	Traction center make							EMSON				
xv.	Traction lever make							SARITA				
xvi.	Ball joint traction lever							PRAG				
xvii.	Traction center elastic							SB				
xviii.	Secondary rubber pad							BHAM				
xix.	Rubber spring							GMT				
xx.	Anti roll bar make							EMSON				
xxi.	Ball joint roll link							SARITA				
xxii.	Fork make							EMSON	SARITA			
11.4	i.	Modification/Trail(if any):		NIL								
	ii.	Deviations (if any):		Deviations (If any): NIL								

LWSCZ - 8012



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8012
COUPLING TYPE : CBC

COACH_NO : 18634
DATE OF FITMENT: 09-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB WABCO	05/18/278
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-386
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	HI -REL POWER ELECTRONICS PVT LTD	15120682
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-045
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	SOUTHERN BATTERIES PVT.LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	VISHAL GAS SERVICE	VISHAL
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	VISHAL GAS SERVICE	VISHAL
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	VISHAL GAS SERVICES	VISHAL
4	33635298-4, WATER BOILER	EDTS339,REV-0	VISHAL GAS SERVICES	VISHAL
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	



भारतीय रेलवे
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18634
RAILWAY CR DATE OF FITMENT: 09-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name	COMPARTMENT		
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES

Group Name	UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL

SSE/EL/QC	AME/WM QC/DY CQM I



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8009	BOGIE NO	186396	/ 186397	DISPATCH DATE	14-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ		COACH NO	18635
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm		1095	1100	
	v)	Buffer/CBC (Make)			SANROK	SANROK	
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	86 / 86	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		KBI			
	2	BIO-TOILET		AMIT, PD STEEL			
	3	FLOOR BOARD		NARBADA			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	WATER TANKS		RAIL FAB			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		KALSI			
	9	SEAT & BEARTH		ADVANCE			
	10	LP SHEET		PL			
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8009		CR		LWSCZ		18635		14-JUL-18	
11.1 Wheel & Axle Details:												
i.	Bogie No.	186396					186397					
ii.	Frame No.	ECBT-309					ECBT-306					
iii.	Bolster No.	AMIT-01-2018					APEX-02-2018					
iv.	Axle No.	Z - 4743		C - 0044			Y - 7220			Z - 2554		
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	916.50	916.50	916.00	916.00	916.00	916.00	916.00	916.00	916.50		
vii.	Wheel Disc No.	32673-7SJ1-TZ	30729-7SJ5-TZ	29416-7SH7-TZ	32026-7SG5-TZ	29068-7SH7-TZ	31637-7TG6-TZ	30728-7SJ5-TZ	32675-7SJ3-TZ			
viii.	RB Nos.	11849	13792	13371	13756	12908	13716	13931	13079			
ix.	RB Make	TIMKEN		TIMKEN			TIMKEN			TIMKEN		
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING										
11.2 Secondary suspension load deflection Values:												
Description		Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & Nos.	FSK-17-5-91	FSK-17-6-73	FSK-17-5-84	FSK-17-6-140	FSK-17-5-100	FSK-17-6-154	FSK-17-5-48	FSK-17-6-155			
ii.	Ht. at test load	510.00	466.00	509.50	466.00	507.00	468.00	507.00	466.00			
iii.	Align. deviation	10.00	11.00	10.00	10.00	13.00	11.00	9.00	8.00			
Items traceability:												
11.3												
Sno.	Item							Make				
i.	Primary Outer Spring	FSK-18-01			FSK-18-01			FSK				
ii.	Primary inner Spring	GBD-17-08			GBD-17-08			GBD				
iii.	Primary Damper	6160, 6030, 6041, 6170			14096, 14104, 6194, 14103			GABRIEL				
iv.	Secondary Damper	1790, 1794			1791, 1709			GABRIEL				
v.	Lateral Damper	0005			0004			ESCORTS				
vi.	Break cylinder & Caliper	7383-691,7165-691, 7560-691,7164-691			7603-691,7387-691, 7696-691,7396-691			KBI				
vii.	Break Disc							KBI				
viii.	Contral arm top							KUMAR				
ix.	Control arm bottom							HAPL				
x.	Top rubber Pad							GMT				
xi.	Vertical Bump Stop							PRAG				
xii.	Ball Joint Control arm							GMT				
xiii.	Lateral Bump stop							BONY				
xiv.	Traction center make							EMSON				
xv.	Traction lever make							SARITA				
xvi.	Ball joint traction lever							PRAG				
xvii.	Traction center elastic							GMT				
xviii.	Secondary rubber pad							BHAM				
xix.	Rubber spring							PRAG				
xx.	Anti roll bar make							EMSON				
xxi.	Ball joint roll link							SARITA				
xxii.	Fork make							EMSON				
11.4												
i.	Modification/Trail(if any):	NIL										
ii.	Deviations (if any):	Deviations (If any): NIL										

LWSCZ - 8009



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8009
COUPLING TYPE : CBC

COACH_NO : 18635
DATE OF FITMENT: 14-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0118084701
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-287
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLIANCE LTD.	0618082486
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	INTERNATIONAL SWITCHGEAR & CONTROLS	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-98
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	MAA LUXMI INDUSTRIES	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	10/2017
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	VISHAL GAS SERVICE	VGS-07-06/17
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	VISHAL GAS SERVICE	VGS-07-06/17
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	VISHAL GAS SERVICES	VGS-10-06/17
4	33635298-4, WATER BOILER	EDTS339,REV-0	VISHAL GAS SERVICES	VGS-10-06/17



रेल कोच फैक्ट्री, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18635
RAILWAY CR DATE OF FITMENT: 14-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT	
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES
Group Name		UNDER FRAME NPP SIDE	
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	MAA LUXMI INDUSTRIES
SSE/EL/QC		AME/WM QC/DY CQM I	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8015	BOGIE NO	186584	/ 186652	DISPATCH DATE	20-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ		COACH NO	18639
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	Buffer/CBC (Make)			ESCORTS	ESCORTS	
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	86 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		KBI			
	2	BIO-TOILET		AMIT			
	3	FLOOR BOARD		NARBADA, TWPL			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	WATER TANKS		RAIL FAB			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		KALSI			
	9	SEAT & BEARTH		ADVANCE			
	10	LP SHEET		PL			
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8015		CR		LWSCZ		18639		20-JUL-18	
11.1	Wheel & Axle Details:											
i.	Bogie No.	186584					186652					
ii.	Frame No.	ECBT-347					BGB-223					
iii.	Bolster No.	P-7848					SHIVALIK-96					
iv.	Axle No.	F- 7733		F- 9132		Z- 3846			Z - 2737			
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00			
vii.	Wheel Disc No.	25645-7PL1-TZ	21789-7OP4-TZ	21832-7PR1-TZ	27829-7PR1-TZ	27614-7RH0-TZ	27612-7RH0-TZ	20847-7QL1-TZ	25963-7PL1-TZ			
viii.	RB Nos.	27830	28095	27711	18456	25872	77140	57037	26415			
ix.	RB 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	Outer	Inner	
i.	Make & Nos.	GBD-17-5-219	FSK-17-6-8	GBD-17-5-225	FSK-17-6-160	RSK-17-6-15	FSK-17-10-15	FSK-17-8-40	FSK-17-6-90			
ii.	Ht. at test load	508.00	467.00	507.00	467.00	511.00	468.00	511.00	464.50			
iii.	Align. deviation	11.00	8.00	10.00	7.00	9.00	11.00	5.00	11.00			
Items traceability:												
11.3	Sno. Item								Make			
i.	Primary Outer Spring		RSK-17-8			RSK-17-9			RSK			
ii.	Primary inner Spring		RSK-14-5			RSK-14-5			RSK			
iii.	Primary Damper		13982, 14093, 14010, 14056			14089, 14011, 14091, 14367			GABRIEL			
iv.	Secondary Damper		556, 1077			595, 1056			SV			
v.	Lateral Damper		065			249			SV			
vi.	Break cylinder & Caliper		A1894-691,A3317-691, A1700-691,A1317-691			A4452-691,A4450-691, A4454-691,A4483-691			KBI			
vii.	Break Disc								KBI			
viii.	Contral arm top								RSS	RV		
ix.	Control arm bottom								RSS	RV		
x.	Top rubber Pad								PRAG			
xi.	Vertical Bump Stop								GMT			
xii.	Ball Joint Control arm								ASHIKA	MB		
xiii.	Lateral Bump stop								GMT			
xiv.	Traction center make								EMSON			
xv.	Traction lever make								SARITA			
xvi.	Ball joint traction lever								GMT	PRAG		
xvii.	Traction center elastic								WLB	GMT		
xviii.	Secondary rubber pad								BHAM			
xix.	Rubber spring								GMT			
xx.	Anti roll bar make								EMSON			
xxi.	Ball joint roll link								SARITA			
xxii.	Fork make								EMSON	SARITA		
11.4	i.	Modification/Trail(if any):		NIL								
	ii.	Deviations (if any):		Deviations (If any): NIL								

LWSCZ - 8015



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8015
COUPLING TYPE : CBC

COACH_NO : 18639
DATE OF FITMENT: 19-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0117223470
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-453
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	061712481
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	NEC SWITCHGEAR & CONTROL	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-100
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रामा िवसे पीएलईए
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18639
RAILWAY CR DATE OF FITMENT: 19-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8007	BOGIE NO	186704	/ 186707	DISPATCH DATE	23-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ		COACH NO	18638
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body		23700+10/-0			
	ii)	Maximum width over Body		3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level		4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	Buffer/CBC (Make)			SANROK	SANROK	
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	95 / 95	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT		FAVELLY			
	2	BIO-TOILET		OMAX			
	3	FLOOR BOARD		TWPL, TWPL			
	4	PVC		RESPONSIVE			
	5	UIC VESTIBULES		KRP			
	6	WATER TANKS		RAIL FAB			
	7	BODY SIDE DOOR		JVR			
	8	VESTIBULE SLIDING DOOR		KALSI			
	9	SEAT & BEARTH		ADVANCE			
	10	LP SHEET		PL			
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8007		CR		LWSCZ		18638		23-JUL-18	
11.1	Wheel & Axle Details:											
i.	Bogie No.	186704				186707						
ii.	Frame No.	ECBT-579				BEC-286						
iii.	Bolster No.	SHIVALIK-151				SHIVALIK-140						
iv.	Axle No.	Y - 8240		Y - 7595		Y - 8427		Y - 7259				
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	918.00	918.00	918.00	918.00	918.00	918.00	918.00	918.00			
vii.	Wheel Disc No.	03429-7NL9-TZ	21271-7QJ3-TZ	03497-7NM2-TZ	27185-7RK4-TZ	03430-7NM5-TZ	04950-7NN9-TZ	03574-8MN5-TZ	03573-8MN5-TZ			
viii.	RB Nos.	77068	27188	26995	26994	15725	26999	79513	19079			
ix.	RB 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.	FSK-17-8-01	FSK-17-6-352	FSK-17-8-47	FSK-17-6-247	FSK-17-8-98	FSK-17-6-259	FSK-17-8-67	FSK-17-6-224			
ii.	Ht. at test load	508.00	464.00	509.50	464.00	510.50	467.00	511.50	468.00			
iii.	Align. deviation	10.00	12.00	9.00	8.00	6.00	13.00	7.00	13.00			
Items traceability:												
11.3	Sno.	Item						Make				
i.	Primary Outer Spring		FSK-17-5			FSK-17-5			FSK			
ii.	Primary inner Spring		RSK-14-5			RSK-14-5			RSK			
iii.	Primary Damper		14479, 14126, 3762, 14250			14267, 14266, 13934, 7068			GABRIEL			
iv.	Secondary Damper		430, 325			633, 363			SV			
v.	Lateral Damper		0202			1176			ESCORTS	GABRIEL		
vi.	Break cylinder & Caliper		D18323-600,D18330-600, D18225-600,D18333-600			C18613-600,C18539-600, C18581-600,C18244-600			FTI			
vii.	Break Disc								KBI			
viii.	Contral arm top								RSS	RV		
ix.	Control arm bottom								RV			
x.	Top rubber Pad								GMT			
xi.	Vertical Bump Stop								PRAG			
xii.	Ball Joint Control arm								GMT			
xiii.	Lateral Bump stop								GMT			
xiv.	Traction center make								EMSON			
xv.	Traction lever make								SARITA			
xvi.	Ball joint traction lever								PRAG			
xvii.	Traction center elastic								AVADH			
xviii.	Secondary rubber pad								BHAM			
xix.	Rubber spring								GMT			
xx.	Anti roll bar make								EMSON			
xxi.	Ball joint roll link								SARITA			
xxii.	Fork make								EMSON			
11.4	i.	Modification/Trail(if any):		NIL								
	ii.	Deviations (if any):		Deviations (If any): NIL								

LWSCZ - 8007



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ	Shell No : 8007	COACH_NO : 18638
RAILWAY CR	COUPLING TYPE : CBC	DATE OF FITMENT: 18-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB-WABCO	05/18/255
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-465
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	15120670
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-085
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-016
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18638
RAILWAY CR DATE OF FITMENT: 18-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO 8008	BOGIE NO 186722	/ 186723	DISPATCH DATE 23-JUL-18
2.	RAILWAY CR	TYPE OF COACH LWSCZ	COACH NO 18636	
3.	BOOKED TO	SSE/C&W/CSTM		
4.	Tare Weight of Coach	40.5 T		
5.	Carrying Capacity	Seating 102	Sleeping NIL	Luggage NIL
6.	6.1 Leading Dimensions:			
	i)	Maximum length over Body	23700+10/-0	
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)	
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)	
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm	1105
	v)	Buffer/CBC (Make)	SANROK	SANROK
7.	Air Brake Testing:		Description	Specified
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec
			Max Pressure in BC	3.80±0.15 Kg/cm ²
			All Brake are applied	OK
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply
8.	Painting Details:		Type of Paint	Make
	8.1	Paint	PU PAINT	GS
	8.2	Application of PCN-123	SATISFACTORY	
	8.3	Insulation	SATISFACTORY	
9.	Traceability of Furnishing Items:			
	1	EP BRAK / BRAKE EQUIPMENT	FAVELLY	
	2	BIO-TOILET	RAIL FAB	
	3	FLOOR BOARD	TWPL, TWPL	
	4	PVC	RESPONSIVE	
	5	UIC VESTIBULES	KRP	
	6	WATER TANKS	RAIL FAB	
	7	BODY SIDE DOOR	JVR	
	8	VESTIBULE SLIDING DOOR	KALSI	
	9	SEAT & BEARTH	ADVANCE	
	10	LP SHEET	PL	
10.	10.1	Modification/ Trial (If any): NIL		
	10.2	Deviations (If any): NIL		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:	Shell No.	Railway		Type	Coach No.	Dispatch Date		
		8008	CR		LWSCZ	18636	23-JUL-18		

11.1 Wheel & Axle Details:									
i.	Bogie No.	186722				186723			
ii.	Frame No.	BEC-284				RBKYG-18E-59			
iii.	Bolster No.	VT-7977				SHIVALIK-127			
iv.	Axle No.	F- 7686		Z- 4150		F- 7711		F- 8112	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00
vii.	Wheel Disc No.	26343-7RK5-TZ	22361-7OQ3-TZ	27026-7QL1-TZ	27023-7RK4-TZ	22363-7OQ3-TZ	26616-7RG9-TZ	26615-7RG9-TZ	22362-7OQ3-TZ
viii.	RB Nos.	82606	58685	44625	78005	16410	58110	77894	18214
ix.	RB 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.	FSK-17-5-173	FSK-17-8-128	FSK-17-8-128	FSK-17-8-140	FSK-17-2-17	FSK-17-6-45	FSK-17-8-108	FSK-18-5-42
ii.	Ht. at test load	511.00	466.50	509.00	467.50	511.00	467.50	511.00	466.00
iii.	Align. deviation	10.00	10.00	9.00	11.00	8.00	7.00	8.00	8.00

Items traceability:					
11.3	Sno.	Item	Make		
	i.	Primary Outer Spring	FSK-17-5		
	ii.	Primary inner Spring	AFJ-18-1		
	iii.	Primary Damper	IAI		
	iv.	Secondary Damper	SV		
	v.	Lateral Damper	GABRIEL		
	vi.	Break cylinder & Caliper	FTI		
	vii.	Break Disc	KBI		
	viii.	Contral arm top	KUMAR		
	ix.	Control arm bottom	KUMAR		
	x.	Top rubber Pad	GMT		
	xi.	Vertical Bump Stop	PRAG		
	xii.	Ball Joint Control arm	ASHIKA		
	xiii.	Lateral Bump stop	GMT		
	xiv.	Traction center make	EMSON		
	xv.	Traction lever make	SARITA		
	xvi.	Ball joint traction lever	PRAG		
	xvii.	Traction center elastic	AVADH		
	xviii.	Secondary rubber pad	BHAM		
	xix.	Rubber spring	GMT		
	xx.	Anti roll bar make	EMSON		
	xxi.	Ball joint roll link	SARITA		
	xxii.	Fork make	SARITA		

11.4	i.	Modification/Trail(if any):	NIL
	ii.	Deviations (if any):	Deviations (If any): NIL

LWSCZ - 8008



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8008
COUPLING TYPE : CBC

COACH_NO : 18636
DATE OF FITMENT: 16-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB-WEBECO	05/18/286
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-467
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	061712508
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-90
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SUPER REFRIGRATION INUSTRYIES	
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SUPER REFRIGRATION INUSTRYIES	
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SUPER REFRIGRATION INUSTRYIES	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SUPER REFRIGRATION INUSTRYIES	
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18636
RAILWAY CR DATE OF FITMENT: 16-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8013	BOGIE NO	186564	/ 186591	DISPATCH DATE	23-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ		COACH NO	18637
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body			23700+10/-0		
	ii)	Maximum width over Body			3240-8/+0 mm, 3050 mm (for LWSCZDAC)		
	iii)	Maximum height from Rail Level			4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBAC, LWLRRM), 4366 (for LWSCZDAC)		
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm		1105	1105	
	v)	Buffer/CBC (Make)			ESCORTS	ESCORTS	
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm ²		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	95 / 97	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT			KBI		
	2	BIO-TOILET			OMAX		
	3	FLOOR BOARD			NARBADA		
	4	PVC			RESPONSIVE		
	5	UIC VESTIBULES			KRP		
	6	WATER TANKS			RAIL FAB		
	7	BODY SIDE DOOR			JVR		
	8	VESTIBULE SLIDING DOOR			KALSI		
	9	SEAT & BEARTH			ADVANCE		
	10	LP SHEET			PL		
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8013		CR		LWSCZ		18637		23-JUL-18	
11.1	Wheel & Axle Details:											
i.	Bogie No.	186564					186591					
ii.	Frame No.	ECBT-524					RBKYG-18E-68					
iii.	Bolster No.	SHIVALIK-36					P-7902					
iv.	Axle No.	F- 8486		F- 7574		F- 8577			Y- 1455			
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	917.00	917.00	917.00	917.00			
vii.	Wheel Disc No.	25541-7QJ4-TZ	26613-7RG9-TZ	25648-7PL1-TZ	21816-7OP4-TZ	21795-7OP4-TZ	22221-7PR1-TZ	24635-7RG4-TZ	24633-7RG8-TZ			
viii.	RB Nos.	77243	15963	79020	78155	26414	78635	58279	17485			
ix.	RB 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	Outer	Inner	
i.	Make & Nos.	FSK-17-6-88	FSK-17-6-174	FSK-17-6-2	FSK-17-6-138	FSK-17-8-122	FSK-17-8-98	FSK-17-8-53	FSK-17-10-01			
ii.	Ht. at test load	508.00	466.00	508.50	465.50	508.00	466.00	507.00	465.00			
iii.	Align. deviation	12.00	13.00	10.00	13.00	8.00	11.00	7.00	9.00			
Items traceability:												
11.3	Sno.	Item							Make			
i.	Primary Outer Spring		RSK-17-9			RSK-17-9			RSK			
ii.	Primary inner Spring		RSK-14-5			RSK-14-5			RSK			
iii.	Primary Damper		14107, 14111, 14116, 14106			14108, 14459, 14429, 14109			GABRIEL			
iv.	Secondary Damper		626, 582			624, 815			SV			
v.	Lateral Damper		0243			1133			ESCORTS	GABRIEL		
vi.	Break cylinder & Caliper		3586-691,3305-691, 3582-691,3261-691			A1588-691,A1482-691, A1590-691,A1494-691			KBI			
vii.	Break Disc								KBI			
viii.	Contral arm top								KUMAR	RSS		
ix.	Control arm bottom								RV	RSS		
x.	Top rubber Pad								GMT	PRAG		
xi.	Vertical Bump Stop								PRAG	GMT		
xii.	Ball Joint Control arm								GMT	MB		
xiii.	Lateral Bump stop								GMT			
xiv.	Traction center make								EMSON	SARITA		
xv.	Traction lever make								SARITA			
xvi.	Ball joint traction lever								BONY	PRAG		
xvii.	Traction center elastic								WLB	GMT		
xviii.	Secondary rubber pad								BHAM			
xix.	Rubber spring								GMT			
xx.	Anti roll bar make								EMSON	SARITA		
xxi.	Ball joint roll link								SARITA			
xxii.	Fork make								EMSON			
11.4	i.	Modification/Trail(if any):		NIL								
	ii.	Deviations (if any):		Deviations (If any): NIL								

LWSCZ - 8013



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8013
COUPLING TYPE : CBC

COACH_NO : 18637
DATE OF FITMENT: 18-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	KNOOR - BREMSE INDIA PVT.LTD.	0118205585
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-469
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	061803760
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INTEG ELECTRONICS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-093
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MR-04
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MR-023
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18637
RAILWAY CR DATE OF FITMENT: 18-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



भारतीय रेलवे
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8014	BOGIE NO	186700	/ 186701	DISPATCH DATE	24-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ	COACH NO	18641	
3.	BOOKED TO	SSE/C&W/CSTM					
4.	Tare Weight of Coach	40.5 T					
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage	NIL
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm	1105	1105		
	v)	Buffer/CBC (Make)		ESCORTS	ESCORTS		
7.	Air Brake Testing:	Description	Specified				
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	Painting Details:	Type of Paint	Make	Average Gloss Value			
	8.1	Paint	PU PAINT	VIBGYOR	87 / 88		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	2	BIO-TOILET	AMIT				
	3	FLOOR BOARD	NARBADA				
	4	PVC	RESPONSIVE				
	5	UIC VESTIBULES	KRP				
	6	WATER TANKS	RAIL FAB				
	7	BODY SIDE DOOR	JVR				
	8	VESTIBULE SLIDING DOOR	KALSI				
	9	SEAT & BEARTH	ADVANCE				
	10	LP SHEET	PL				
10.	10.1	Modification/ Trial (If any): NIL					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.	Railway		Type		Coach No.		Dispatch Date	
			8014	CR		LWSCZ		18641		24-JUL-18	
11.1	Wheel & Axle Details:										
	i.	Bogie No.	186700				186701				
	ii.	Frame No.	BEC-282				ECBT-605				
	iii.	Bolster No.	SHIVALIK-124				SHIVALIK-135				
	iv.	Axle No.	Z - 4806		Z - 4144		Y - 7498		Z - 4392		
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	
	vi.	Wheel Dia.	917.50	917.50	918.00	918.00	917.00	917.00	916.50	916.00	
	vii.	Wheel Disc No.	03433-7NK3-TZ	03502-7NM2-TZ	00619-7NM2-TZ	00615-7NM2-TZ	03431-7NL0-TZ	07942-7OG8-TZ	25901-7RJ6-TZ	08008-7NL1-TZ	
	viii.	RB Nos.	17192	79577	17219	27183	27877	15889	17191	17196	
	ix.	RB 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.		FSK-17-5-57	FSK-18-5-168	FSK-18-5-28	FSK-18-5-157	FSK-17-8-75	FSK-17-5-262	FSK-17-8-106	FSK-18-5-125	
ii.	Ht. at test load		508.00	468.00	508.00	468.00	511.00	467.00	511.50	468.00	
iii.	Align. deviation		10.00	12.00	10.00	12.00	7.00	7.00	11.00	12.00	
Items traceability:											
11.3	Sno. Item								Make		
	i.	Primary Outer Spring		FSK-17-5		FSK-17-5		FSK			
	ii.	Primary inner Spring		GBD-18-1		RSK-14-5		GBD	RSK		
	iii.	Primary Damper		14127, 14032, 13963, 14481		13962, 14478, 14255, 14151		GABRIEL			
	iv.	Secondary Damper		131, 1054		109, 1090		SV			
	v.	Lateral Damper		0182		0212		ESCORTS			
	vi.	Break cylinder & Caliper		M17197-600,M17100-600, M17182-600,M17104-600		D18326-600,D18277-600, D18328-600,D18272-600		FTI			
	vii.	Break Disc						KBI			
	viii.	Contral arm top						RV	KUMAR		
	ix.	Control arm bottom						RV			
	x.	Top rubber Pad						GMT			
	xi.	Vertical Bump Stop						PRAG			
	xii.	Ball Joint Control arm						GMT			
	xiii.	Lateral Bump stop						GMT			
	xiv.	Traction center make						EMSON			
	xv.	Traction lever make						SARITA			
	xvi.	Ball joint traction lever						PRAG			
	xvii.	Traction center elastic						ASHIKA			
	xviii.	Secondary rubber pad						BHAM			
	xix.	Rubber spring						GMT			
	xx.	Anti roll bar make						EMSON			
	xxi.	Ball joint roll link						SARITA			
	xxii.	Fork make						EMSON			
11.4	i.	Modification/Trail(if any):		NIL							
	ii.	Deviations (if any):		Deviations (If any): NIL							

LWSCZ - 8014



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8014
COUPLING TYPE : CBC

COACH_NO : 18641
DATE OF FITMENT: 13-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB WEBCO	05/18/268
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-463
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	HI -REL POWER ELECTRONICS PVT LTD	17121144
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	NEC SWITCHGEAR & CONTROL	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-083
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-30
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP/13
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18641
RAILWAY CR DATE OF FITMENT: 13-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT	
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CORPORATION
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES
Group Name		UNDER FRAME NPP SIDE	
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL
SSE/EL/QC		AME/WM QC/DY CQM I	



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8011	BOGIE NO	186619 / 186620	DISPATCH DATE	25-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ	COACH NO	18640
3.	BOOKED TO	SSE/C&W/CSTM				
4.	Tare Weight of Coach	40.5 T				
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage
6.	6.1	Leading Dimensions:				
	i)	Maximum length over Body	23700+10/-0			
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm	1100	1102	
	v)	Buffer/CBC (Make)		ESCORTS	ESCORTS	
7.	Air Brake Testing:		Description		Specified	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec	
			Max Pressure in BC		3.80±0.15 Kg/cm ²	
			All Brake are applied		OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply	
8.	Painting Details:		Type of Paint		Make	Average Gloss Value
	8.1	Paint	PU PAINT		VIBGYOR	86 / 85
	8.2	Application of PCN-123	SATISFACTORY			
	8.3	Insulation	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	1	EP BRAK / BRAKE EQUIPMENT	FAVELLY			
	2	BIO-TOILET	AMIT			
	3	FLOOR BOARD	NARBADA			
	4	PVC	RESPONSIVE			
	5	UIC VESTIBULES	KRP			
	6	WATER TANKS	RAIL FAB			
	7	BODY SIDE DOOR	JVR			
	8	VESTIBULE SLIDING DOOR	KALSI			
	9	SEAT & BEARTH	ADVANCE			
	10	LP SHEET	PL			
10.	10.1	Modification/ Trial (If any): NIL				
	10.2	Deviations (If any): NIL				



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8011		CR		LWSCZ		18640		25-JUL-18	
11.1	Wheel & Axle Details:											
i.	Bogie No.	186619				186620						
ii.	Frame No.	BGB-200				BGB-228						
iii.	Bolster No.	SHIVALIK-42				SHIVALIK-92						
iv.	Axle No.	Z - 4181		127015		C - 3537		K - 6718				
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	916.00	916.00			
vii.	Wheel Disc No.	05973-70G6-TZ	05699-70G4-TZ	13868-70H1-TZ	13871-70H1-TZ	20140-70Q2-TZ	07478-7NP0-TZ	30796-7TG0-TZ	32749-7TG9-TZ			
viii.	RB Nos.	17419	15774	16830	15766	28522	24482	25523	24473			
ix.	RB 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.	FSK-17-8-88	FSK-17-8-6	FSK-17-8-189	FSK-17-8-163	FSK-17-8-112	FSK-17-8-131	FSK-17-8-2	FSK-17-8-75			
ii.	Ht. at test load	511.00	465.00	511.00	465.00	507.00	464.50	508.00	465.00			
iii.	Align. deviation	9.00	10.00	9.00	11.00	8.00	8.00	8.00	8.00			
Items traceability:												
11.3	Sno.	Item							Make			
i.	Primary Outer Spring	GBD-17-10			GBD-17-10			GBD				
ii.	Primary inner Spring	RSK-14-5			RSK-14-5			RSK				
iii.	Primary Damper	4211, 3653, 3797, 4047			4048, 3651, 4301, 3986			GABRIEL				
iv.	Secondary Damper	1216, 658			830, 3360			GABRIEL				
v.	Lateral Damper	0232			0250			ESCORTS				
vi.	Break cylinder & Caliper	C18579-600,C18238-600, C18378-600,C18243-600			D18339-600,D18137-600, D18338-600,D18063-600			FTI				
vii.	Break Disc							KBI				
viii.	Contral arm top							RSS				
ix.	Control arm bottom							RV				
x.	Top rubber Pad							PRAG				
xi.	Vertical Bump Stop							GMT				
xii.	Ball Joint Control arm							GMT				
xiii.	Lateral Bump stop							GMT				
xiv.	Traction center make							EMSON				
xv.	Traction lever make							SARITA				
xvi.	Ball joint traction lever							PRAG				
xvii.	Traction center elastic							AVADH				
xviii.	Secondary rubber pad							BHAM				
xix.	Rubber spring							GMT				
xx.	Anti roll bar make							EMSON				
xxi.	Ball joint roll link							SARITA				
xxii.	Fork make							EMSON				
11.4	i.	Modification/Trail(if any):		NIL								
	ii.	Deviations (if any):		Deviations (If any): NIL								

LWSCZ - 8011



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8011
COUPLING TYPE : CBC

COACH_NO : 18640
DATE OF FITMENT: 20-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB WABCO	05/18/265
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-380
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLIENCE LTD	81707169
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	INTEG-2017-11-416
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	NEC SWITCHGEAR AND CONTROLS	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-078
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMA RAJA	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT. LTD.	HC-DF-SSDR-MP-014
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT. LTD.	SPECTRUM
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SPECTRUM
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT. LTD.	SPECTRUM



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18640
RAILWAY CR DATE OF FITMENT: 20-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	S INTERNATIONAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8010	BOGIE NO	186799 / 186800	DISPATCH DATE	31-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ	COACH NO	18642
3.	BOOKED TO	SSE/C&W/CSTM				
4.	Tare Weight of Coach	40.5 T				
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage
6.	6.1	Leading Dimensions:				
	i)	Maximum length over Body	23700+10/-0			
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm	1105	1092	
	v)	Buffer/CBC (Make)		ESCORTS	ESCORTS	
7.	Air Brake Testing:		Description		Specified	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		06 - 10 Sec	
			Max Pressure in BC		3.80±0.15 Kg/cm ²	
			All Brake are applied		OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi		No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec		Brake must apply	
8.	Painting Details:		Type of Paint		Make	Average Gloss Value
	8.1	Paint	PU PAINT		VIBGYOR	88 / 89
	8.2	Application of PCN-123	SATISFACTORY			
	8.3	Insulation	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	1	EP BRAK / BRAKE EQUIPMENT	FAVELLY			
	2	BIO-TOILET	OMAX			
	3	FLOOR BOARD	OVPL			
	4	PVC	RESPONSIVE			
	5	UIC VESTIBULES	KRP			
	6	WATER TANKS	RAIL FAB			
	7	BODY SIDE DOOR	JVR			
	8	VESTIBULE SLIDING DOOR	KALSI			
	9	SEAT & BEARTH	ADVANCE			
	10	LP SHEET	---			
10.	10.1	Modification/ Trial (If any): NIL				
	10.2	Deviations (If any): NIL				



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8010		CR		LWSCZ		18642		31-JUL-18	
11.1 <u>Wheel & Axle Details:</u>												
	i.	Bogie No.	186799				186800					
	ii.	Frame No.	ECBT-667				ECBT-671					
	iii.	Bolster No.	SHIVALIK-81				SHIVALIK-128					
	iv.	Axle No.	F - 9454		N - 6811		Z - 2770		Y - 1676			
	v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side		
	vi.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00		
	vii.	Wheel Disc No.	19183-7PL2-TZ	18257-7OQ5-TZ	03190-8MG5-TZ	03196-8MG5-TZ	18260-7OQ5-TZ	03645-8MP3-TZ	11163-7OL9-TZ	03192-8MG5-TZ		
	viii.	RB Nos.	77695	79972	15519	15502	82510	44214	15627	77827		
	ix.	RB Make	SKF		SKF		SKF		SKF			
	x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2 <u>Secondary suspension load deflection Values:</u>												
Description			Lateral Damper Side		Non-Lat. Damper Side		Lateral Damper Side		Non-Lat. Damper Side			
			Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
i.	Make & Nos.		FSK-17-8-73	FSK-17-6-172	FSK-17-2-11	FSK-17-6-137	FSK-17-8-21	FSK-17-6-196	FSK-17-8-9	FSK-17-6-214		
ii.	Ht. at test load		509.50	467.00	511.00	468.00	508.50	465.00	508.00	468.00		
iii.	Align. deviation		13.00	13.00	6.00	8.00	9.00	7.00	10.00	8.00		
<u>Items traceability:</u>												
11.3												
	Sno.	Item							Make			
	i.	Primary Outer Spring	FSK-17-5			FSK-17-5			FSK			
	ii.	Primary inner Spring	AFJ-18-1			AFJ-18-1			AFJ			
	iii.	Primary Damper	2339, 3292, 3361, 3365			2379, 3367, 3027, 3031			GABRIEL			
	iv.	Secondary Damper	936, 674			957, 765			SV			
	v.	Lateral Damper	104			086			SV			
	vi.	Break cylinder & Caliper	D18259-600,D18291-600, D18355-600,D18274-600			F18203-600,F18373-600, F18213-600,D18376-600			FTI			
	vii.	Break Disc							KBI			
	viii.	Contral arm top							KUMAR			
	ix.	Control arm bottom							KUMAR		RV	
	x.	Top rubber Pad							PRAG			
	xi.	Vertical Bump Stop							GMT			
	xii.	Ball Joint Control arm							MB			
	xiii.	Lateral Bump stop							GMT			
	xiv.	Traction center make							SARITA			
	xv.	Traction lever make							SARITA			
	xvi.	Ball joint traction lever							GMT			
	xvii.	Traction center elastic							SB			
	xviii.	Secondary rubber pad							BHAM		GMT	
	xix.	Rubber spring							AVADH			
	xx.	Anti roll bar make							SARITA			
	xxi.	Ball joint roll link							BONY			
	xxii.	Fork make							SARITA			
11.4												
	i.	Modification/Trail(if any):	NIL									
	ii.	Deviations (if any):	Deviations (If any): NIL									

LWSCZ - 8010



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8010
COUPLING TYPE : CBC

COACH_NO : 18642
DATE OF FITMENT: 28-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB-WEBECO	11/18/525
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-411
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	061803750
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	INDORAIL	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-025
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-022
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-023
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-023
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-023
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18642
RAILWAY CR DATE OF FITMENT: 28-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT		
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION	
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES	
Group Name		UNDER FRAME NPP SIDE		
2	33642230-2, Z S COUPLING NPP SIDE	EDTS-105, REV-B	PRIME ELECTRICAL	
SSE/EL/QC		AME/WM QC/DY CQM I		



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	8017	BOGIE NO	186605 / 186606	DISPATCH DATE	31-JUL-18
2.	RAILWAY	CR	TYPE OF COACH	LWSCZ	COACH NO	18643
3.	BOOKED TO	SSE/C&W/CSTM				
4.	Tare Weight of Coach	40.5 T				
5.	Carrying Capacity	Seating	102	Sleeping	NIL	Luggage
6.	6.1	Leading Dimensions:				
	i)	Maximum length over Body	23700+10/-0			
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)			
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)			
	iv)	Buffer/CBC Height	Specified: 1105 +0/-15 mm	1105	1105	
	v)	Buffer/CBC (Make)		ESCORTS	ESCORTS	
7.	Air Brake Testing:	Description	Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec		
			Max Pressure in BC	3.80±0.15 Kg/cm ²		
			All Brake are applied	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply		
8.	Painting Details:	Type of Paint	Make	Average Gloss Value		
	8.1	Paint	PU PAINT	VIBGYOR	88 / 89	
	8.2	Application of PCN-123	SATISFACTORY			
	8.3	Insulation	SATISFACTORY			
9.	Traceability of Furnishing Items:					
	1	EP BRAK / BRAKE EQUIPMENT	FAVELLY			
	2	BIO-TOILET	RAIL FAB			
	3	FLOOR BOARD	TWPL, TWPL			
	4	PVC	RESPONSIVE			
	5	UIC VESTIBULES	KRP			
	6	WATER TANKS	RAIL FAB			
	7	BODY SIDE DOOR	JVR			
	8	VESTIBULE SLIDING DOOR	KALSI			
	9	SEAT & BEARTH	ADVANCE			
	10	LP SHEET	PL			
10.	10.1	Modification/ Trial (If any): NIL				
	10.2	Deviations (If any): NIL				



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9827, VER:1.00

11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			8017		CR		LWSCZ		18643		31-JUL-18	
11.1 Wheel & Axle Details:												
i.	Bogie No.	186605					186606					
ii.	Frame No.	FIAT-6061					FIAT-6269					
iii.	Bolster No.	SHIVALIK-67					SHIVALIK-67					
iv.	Axle No.	R - 3242		Z - 4616			Z - 9600			R - 3506		
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side			
vi.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00	
vii.	Wheel Disc No.	19529-7PK3-TZ	29230-7SH2-TZ	31280-7TH0-TZ	19530-7OJ9-TZ	04929-7NL4-TZ	32797-7TG9-TZ	32552-7SG3-TZ	32551-7SJ3-TZ			
viii.	RB Nos.	27521	17181	25852	27518	27046	18062	26390	27536			
ix.	RB 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	Outer	Inner	
i.	Make & Nos.	FSK-17-5-21	FSK-17-5-89	FSK-17-5-103	FSK-17-5-41	FSK-17-5-93	FSK-17-5-86	FSK-17-5-17	FSK-17-5-68			
ii.	Ht. at test load	511.00	466.00	511.00	465.00	511.50	467.00	511.00	467.00			
iii.	Align. deviation	7.00	9.00	7.00	11.00	9.00	7.00	12.00	10.00			
Items traceability:												
11.3												
Sno.	Item											Make
i.	Primary Outer Spring	FSK-17-12			FSK-17-12			FSK				
ii.	Primary inner Spring	RSK-14-5			RSK-14-5			RSK				
iii.	Primary Damper	1995, 3943, 3253, 1497			7286, 7364, 1960, 1501			GABRIEL				
iv.	Secondary Damper	3379, 659			657, 643			GABRIEL				
v.	Lateral Damper	0172			174			ESCORTS				
vi.	Break cylinder & Caliper	K17108-600,K17024-600, K17704-600,K17026-600			B18169-600,D18511-600, D18301-600,D18510-600			FTI				
vii.	Break Disc							KBI				
viii.	Contral arm top							HAPL				
ix.	Control arm bottom							RSS		HAPL		
x.	Top rubber Pad							PRAG				
xi.	Vertical Bump Stop							GMT				
xii.	Ball Joint Control arm							GMT				
xiii.	Lateral Bump stop							GMT				
xiv.	Traction center make							EMSON				
xv.	Traction lever make							SARITA				
xvi.	Ball joint traction lever							ASHIKA		PRAG		
xvii.	Traction center elastic							GMT		AVADH		
xviii.	Secondary rubber pad							BHAM				
xix.	Rubber spring							GMT				
xx.	Anti roll bar make							EMSON				
xxi.	Ball joint roll link							SARITA				
xxii.	Fork make							SARITA				
11.4												
i.	Modification/Trail(if any):	NIL										
ii.	Deviations (if any):	Deviations (If any): NIL										

LWSCZ - 8017



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

**ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR**

TYPE OF COACH : LWSCZ
RAILWAY CR

Shell No : 8017
COUPLING TYPE : CBC

COACH_NO : 18643
DATE OF FITMENT: 31-JUL-18

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name BOGIE PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name BOGIE NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	S INTERNATIONAL	
Group Name UNDER FRAME				
0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC & NAC COACHES	MDTS077 REV. 02	SAB-WABCO	05/18/257
0	33635250-0, 15 KVA TRANSFORMER 750VAC/415VAC/190 VAC FOR LHB EOG TYPE SCN COACHES	EDTS336,REV-0	VIMAL TRANSFORMER CORPN.	VTC-3089-LHB-389
0	33640117-0, REGULATED BATTERY CHARGER FOR LHB AC SLEEPER COACHES	EDTS074,Rev-A	AUTOMETER ALLAIANCE LTD.	061712482
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	
0	33640580-0, FEEDER JUNCTION BOX	EDTS328	MAA LAXMI INDUSTRY	
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	NEC SWITCHGEAR & CONTROL	
1	33642000-1, UNDERSLUNG SWITCH BOARD CABINET	EDTS355	HIND RECTIFIERS LIMITED	2017-00018-060
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL	
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	ANKUR ENGG. WORKS	
0	45178288-0, 110V,120AH VRLA SMF BATTERY SET PRECHARGED WITH I/CELL & FRONT COVER	RDSO/PE/SPEC/D/TL /0009-99 REV"O" Amendment-1	AMARA RAJA BATTERIES LTD	
Group Name COMPARTMENT				
1	33635298-1, HOT CASE	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SSDR-MP-019
2	33635298-2, BOOTLE COOLER CUM DEEP FREEZER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SPECTRUM
3	33635298-3, BOTTLE COOLER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SPECTRUM
4	33635298-4, WATER BOILER	EDTS339,REV-0	SPECTRUM SCIENTIFIC PVT LTD	SPECTRUM
2	33642000-2, CUBICAL IN DOORWAY	EDTS355	HIND RECTIFIERS LIMITED	CUBICAL



रेलवे कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF
LHB EOG TYPE NON-AC CHAIR CAR

TYPE OF COACH : LWSCZ COUPLING TYPE : CBC COACH_NO : 18643
RAILWAY CR DATE OF FITMENT: 31-JUL-18
S.No PL No & Item Description Drawing No Make Item Sr.No.(if any)

Group Name		COMPARTMENT	
0	35983528-0, BRUSHLESS DC FAN 110V,DC 400MM SWEEP FIXED TYPE	RDSO/PE/SPEC/TL00 21 REV-0,DEC.2000 BUT WITH DIMENSIONS AND CONSTRUCTION TO RCF DRG.NO.CC76260	LIGHT ENGINEERING CARPORATION
0	45978257-0, ACCIDENT EMERGENCY LIGHT UNIT IN ROLLING STOCK	GA DRAWING NO CC76240 AND TECHNICAL DETAILS AS PER SPEC.NO EDTS162	DR AUTO INDUSTRIES
Group Name		UNDER FRAME NPP SIDE	
1	33642230-1, Z S COUPLING PP-SIDE	EDTS-105, REV-B	S INTERNATIONAL
SSE/EL/QC		AME/WM QC/DY CQM I	