



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

(FORM NO. QMF 9454 VER:1.00)									
1.	SHELL NO	9073	BOGIE NO	197592	/ 197593	DISPATCH DATE	07-JAN-20		
2.	RAILWAY	NR	TYPE OF COACH	LACCNX		COACH NO	197393		
3.	BOOKED TO	SSE/C&W/DLI							
4.	Tare Weight of Coach	45.6 T							
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm			1105	1105		
	v)	CBC (Make)				SANROK	SANROK		
	vi)	Buffer (Make)							
7.	Air Brake Testing:		Description			Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2			06 - 10 Sec			
			Max Pressure in BC			3.80±0.15 Kg/cm2			
			All Brake are applied			OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min			No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec			Brake must apply			
8.	Painting Details:		Type of Paint			Make	Average Gloss Value		
	8.1	Paint	PU PAINT			GS	88 / 88		
	8.2	Application of PCN-123	SATISFACTORY						
	8.3	Insulation	SATISFACTORY						
9.	Traceability of Furnishing Items:								
	1	FLOOR BOARD	SRI RAM						
	2	PVC	RESPONSIVE						
	3	UIC VESTIBULES	KRP						
	4	BODY SIDE DOOR	SVARN INFRATEL, JVR						
	5	VESTIBULE SLIDING DOOR	KALSI						
	6	COMPOSITE MODULAR TOILET	HINDUSTAN						
	7	LAVATORY DOORS	HINDUSTAN						
	8	WATER TANKS	SHIVALIK, AMIT, RAIL FAB						
	9	SEAT & BEARTH	OVPL						
	10	BIO-TOILET	AMIT						
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY						
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	AMIT, AMIT, AMIT, AMIT						
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.							
	10.2	Deviations (If any): NIL							



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9073	NR	LACCNX	197393	07-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197592				197593			
ii.	Frame No.	ECBT-1030				ECBT-915			
iii.	Bolster No.	SECPL-159				SECPL-80			
iv.	Axle No.	RWF - S3538		RWF - S3074		RWF - S3096		RWF - S3630	
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.	916.80	916.80	917.00	917.00	917.20	917.20	917.10	917.10
vii.	Wheel Disc No.	12925-8MN4-TZ	22132-8PN6-TZ	66645-9RN8-TZ	23987-8PR2-TZ	13533-8MV8-TZ	27129-8PN7-TZ	66643-9RN8-TZ	23984-8PR9-TZ
viii.	RB Nos.	21681	22328	22927	22814	49111	49290	47927	48964
ix.	RB Make	TIMKEN		TIMKEN		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
i. Make & Nos.	AVADH-19-10-2761	AVADH-19-10-2673	AVADH-19-9-2967	AVADH-19-9-2999

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	STLI-19-02	STLI-19-02
	ii.	Primary inner Spring	STLI-19-08	STLI-19-08
	iii.	Primary Damper	247733, 247901, 248448, 249269	249161, 249537, 249102, 248636
	iv.	Secondary Damper	249915, 249948	249995, 250074
	v.	Lateral Damper	215	2166
	vi.	Brake cylinder & Caliper	G19687-600,G19695-600, G19690-600,G19709-600	G19095-600,F19735-600, F19733-600,E19602-600
	vii.	Brake Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		GMT
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		GMT
	xvii.	Traction center elastic		GMT
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		SARITA
	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

LACCNX - 9073



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX **Shell No :** 9073 **COACH_NO :** 197393

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 06-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	SAB WABCO INDIA LTD.	09/19/319
1 33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	L E CORP. KAPSONS	198-R-1162
2 33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	L E CORP. KAPSONS	198-R-1161
1 33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3191



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4182082
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	IC ELECTRICALS	09/19/0006

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3187
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **NON-PP SIDE**

2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19112990
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL

Group Name **UNDER FRAME**

0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1566
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366,REV-Nil,COR-2., Pack	EDTS366,REV-Nil,COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5-119588
0	33640178-0, BATTERY FUSE BOX - VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-J.	INTEG ELECTRONICS	2018-05-390
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT-I.	ABROL ENGINEERING COMPANY.PVT .LTD	2019-07-666
0	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0 009-2014,REV-2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	ANKUR ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130,TYPE-1,REV-1,COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	KT-1117/04-2019
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	AE-SB-940
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	L & T
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197593
0			MAA LAXMI INDUSTRY	NIL
0			PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197592
0			MAA LAXMI INDUSTRY	NIL
0			PRIME ELECTRONICS	NIL



आर्य िवसे पीएलई
RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS		
ROLLING STOCK CERTIFICATE OF LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)		
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	9075	BOGIE NO	197629	/ 197630	DISPATCH DATE	08-JAN-20		
2.	RAILWAY	NR	TYPE OF COACH	LACCNX		COACH NO	197394		
3.	BOOKED TO	SSE/C&W/DLI							
4.	Tare Weight of Coach	45.6 T							
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)						
	iv)	CBC Height	Specified: 1105 +0/-15 mm		1103	1104			
	v)	CBC (Make)			SANROK	SANROK			
	vi)	Buffer (Make)							
7.	Air Brake Testing:		Description			Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2			06 - 10 Sec			
			Max Pressure in BC			3.80±0.15 Kg/cm2			
			All Brake are applied			OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/mi			No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec			Brake must apply			
8.	Painting Details:		Type of Paint			Make	Average Gloss Value		
	8.1	Paint	PU PAINT			GS	87 / 87		
	8.2	Application of PCN-123	SATISFACTORY						
	8.3	Insulation	SATISFACTORY						
9.	Traceability of Furnishing Items:								
	1	FLOOR BOARD	SRI RAM						
	2	PVC	RESPONSIVE						
	3	UIC VESTIBULES	KRP						
	4	BODY SIDE DOOR	SVARN INFRATEL						
	5	VESTIBULE SLIDING DOOR	KALSI						
	6	COMPOSITE MODULAR TOILET	CMT, HINDUSTAN, SHATABDI						
	7	LAVATORY DOORS	CMT, HINDUSTAN, SHATABDI						
	8	WATER TANKS	SHIVALIK, AMIT, MANOJ						
	9	SEAT & BEARTH	OVPL						
	10	BIO-TOILET	AMIT						
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY						
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	AMIT, AMIT						
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.							
	10.2	Deviations (If any): NIL							



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9075	NR	LACCNX	197394	08-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197629				197630			
ii.	Frame No.	ECBT-894				ECBT-904			
iii.	Bolster No.	PD-CA-2139				SECPL-97			
iv.	Axle No.	RWF - S4216		RWF - S3937		RWF - S7862		RWF - S2902	
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.	917.30	917.30	917.10	917.10	917.20	917.20	917.20	917.20
vii.	Wheel Disc No.	14633-8MR4-TZ	08956-8MX9-TZ	17035-8MS7-TZ	07997-8NG2-TZ	24448-8PS8-TZ	25439-8PR5-TZ	17042-8MS1-TZ	18584-8PN2-TZ
viii.	RB Nos.	22418	23816	24177	23847	22281	24970	23382	24257
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
i.	Make & Nos.	TAYAL-19-11-5649	TAYAL-19-11-5661	TAYAL-18-06-505	TAYAL-18-06-485

Items traceability:					
11.3	Sno.	Item		Make	
	i.	Primary Outer Spring	CMSTL-19-02	CMSTL-19-02	CMSTL
	ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08	CMSTL
	iii.	Primary Damper	249740, 248685, 248807, 249400	248294, 247662, 248083, 248802	IAI
	iv.	Secondary Damper	249979, 249916	249921, 249961	IAI
	v.	Lateral Damper	2307	2407	GABRIEL
	vi.	Brake cylinder & Caliper	G19729-600,G19696-600, G19730-600,G19701-600	H19209-600,H19304-600, G19723-600,H19360-600	FTI
	vii.	Brake Disc			KBI
	viii.	Contral arm top			HAPL
	ix.	Control arm bottom			HAPL
	x.	Top rubber Pad			AVADH
	xi.	Vertical Bump Stop			AVADH
	xii.	Ball Joint Control arm			AVADH
	xiii.	Lateral Bump stop			GMT
	xiv.	Traction center make			SARITA
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			AVADH
	xvii.	Traction center elastic			AVADH
	xviii.	Secondary rubber pad			NA
	xix.	Rubber spring			NA
	xx.	Anti roll bar make			SARITA
	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

LACCNX - 9075



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX **Shell No :** 9075 **COACH_NO :** 197394

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 07-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

0 33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	SAB WABCO INDIA LTD.	22/19/803
1 33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	L E CORP. KAPSONS	198-R-1123
2 33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	L E CORP. KAPSONS	198-R-1121
1 33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3206



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 & RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4592152
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	IC ELECTRICALS	09/19/0007

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3208
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	NON-PP SIDE
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2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19112994
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
Group Name UNDER FRAME				
0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15.RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1391



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366, REV-Nil, COR-2., Pack	EDTS366, REV-Nil, COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5-119612
0	33640178-0, BATTERY FUSE BOX - VE, as per Drawing: LW71002, ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002, ALT-J.	INTEG ELECTRONICS	2018-05-417
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001, ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001, ALT-I.	ABROL ENGINEERING COMPANY.PVT .LTD	2019-07-677
0	33641729-0, 70AH, 110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0 009-2014, REV-2, PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	GOPAL ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	KT-1137/04-2019
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015, REV-0.	AMIT ENGINEERS	AE-SB-571
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015, REV-0.	AMIT ENGINEERS	L & T
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197629
0			MAA LAXMI INDUSTRY	NIL
0			PRIME ELECTRONICS	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197630
0			MAA LAXMI INDUSTRY	NIL



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS			
ROLLING STOCK CERTIFICATE OF			
LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)			
S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name	UNDER FRAME NPP SIDE		
0		S INTERNATIONAL	NIL
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	9037	BOGIE NO	197099	/ 197100	DISPATCH DATE	11-JAN-20		
2.	RAILWAY	NR	TYPE OF COACH	LACCNX		COACH NO	197438		
3.	BOOKED TO	SSE/C&W/DLI							
4.	Tare Weight of Coach	45.6 T							
5.	Carrying Capacity	Seating	72	Sleeping	72	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)	CBC Height	Specified: 1105 +0/-15 mm		1095	1105			
	v)	CBC (Make)			SANROK	SANROK			
	vi)	Buffer (Make)							
7.	Air Brake Testing:		Description			Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2			06 - 10 Sec			
			Max Pressure in BC			3.80±0.15 Kg/cm2			
			All Brake are applied			OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/mi			No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec			Brake must apply			
8.	Painting Details:		Type of Paint			Make	Average Gloss Value		
	8.1	Paint	PU PAINT			GS	87 / 87		
	8.2	Application of PCN-123	SATISFACTORY						
	8.3	Insulation	SATISFACTORY						
9.	Traceability of Furnishing Items:								
	1	FLOOR BOARD	TWPL						
	2	PVC	RESPONSIVE						
	3	UIC VESTIBULES	CEMCON						
	4	BODY SIDE DOOR	JVR						
	5	VESTIBULE SLIDING DOOR	JBM						
	6	COMPOSITE MODULAR TOILET	CMT, HIND						
	7	LAVATORY DOORS	CMT, HIND						
	8	WATER TANKS	SHIVALIK, AMIT, SHIVALIK						
	9	SEAT & BEARTH	OVPL						
	10	BIO-TOILET	PD STEEL, JSL						
	11	EP BRAK / BRAKE EQUIPMENT	KBI						
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.							
	10.2	Deviations (If any): NIL							



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9037	NR	LACCNX	197438	11-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197099				197100			
ii.	Frame No.	CA-1063				CA-1086			
iii.	Bolster No.	PD-CA-1832				PD-CA-1794			
iv.	Axle No.	RWF - L2044		RWF - L2338		RWF - P7481		RWF - P7871	
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	917.15	917.15	917.30	917.30	917.10	917.12
vii.	Wheel Disc No.	32406-8RH3-TZ	41278-8RR6-TZ	29088-8RG4-TZ	44201-8RS8-TZ	41288-8RM6-TZ	30170-8QM6-TZ	30161-8RH3-TZ	30514-8RG0-TZ
viii.	RB Nos.	08639	07519	04932	07868	07577	07410	05362	07709
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
i. Make & Nos.	AVADH-19-05-1927	AVADH-19-05-1864	AVADH-19-05-1911	AVADH-19-05-1845

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-18-12	GBD-18-12
	ii.	Primary inner Spring	RSK-18-10	RSK-18-10
	iii.	Primary Damper	41009, 41088, 40912, 40971	41090, 41018, 41243, 41303
	iv.	Secondary Damper	962, 1000	966, 964
	v.	Lateral Damper	1790	1902
	vi.	Brake cylinder & Caliper	B4913-691,B4071-691, B4914-691,B4069	B4650-691,B3893-691, B4735-691,B3892-691
	vii.	Brake Disc		KBI
	viii.	Contral arm top		HAPL
	ix.	Control arm bottom		HAPL
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		AVADH
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		MGN
	xvii.	Traction center elastic		PRAG
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		SARITA
	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

LACCNX - 9037



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX **Shell No :** 9037 **COACH_NO :** 197438

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 11-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE		
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0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	KNOOR-BREMSE INDIA PVT.LTD	0119071074
1	33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KAPSON (KIND) PUMP SET	19030233/ 19030234
2	33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	L E CORP. KAPSONS	19041266
1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	INTEC CORPORATION	19-G-1320



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 & RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	UNIVERSAL	MBU-00003
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4592626
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	HI-REL POWER ELECTRONICS PVT.LTD	HHPE-19082069

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	INTEC CORPORATION	19-G-1334
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name NON-PP SIDE				
2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19062453
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
Group Name UNDER FRAME				
0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANN1.	RAMYAA ELECTRO-GEAR PVT. LTD.	1906-82-88
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366,REV-Nil,COR-2., Pack	EDTS366,REV-Nil,COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5B-19498
0	33640178-0, BATTERY FUSE BOX -VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-J.	ABROL ENGINEERING COMPANY (P)LTD.	2019-03-077
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT-I.	ABROL ENGINEERING COMPANY.PVT .LTD	2019-02-278
0	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0009-2014,REV-2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	06/2019



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name UNDER FRAME

0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	ANKUR ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130,TYPE-1,REV-1,COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	..

Group Name COMPARTMENT

2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0 087,2008,REV-1 &RDSO/PE/SK/AC/01 82-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026 -2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	UNIVERSAL	0003A , 0003B
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	AE-SB-520
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	L & T

Group Name UNDER FRAME PP SIDE

1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	MAA LAXMI INDUSTRY	197100
1	33640580-1, FEEDR JUNCTION BOX	EDTS328.Rev-C,AM-5,COR-2,TYPE-2	INTERNATIONAL SWITCHGEAR PVT.LTD.	NIL



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **UNDER FRAME PP SIDE**

2	33641110-2, ZS COULING 500A,750V,3-PHASE 50 HZ	EDTS105,REV-E,AM-3,BUT WITH LENGTH OF JUMPER CABLE ON PLUG AND SOCKET SIDE AS 3 MTR & 0.6 MTR RESPECTIVELY & WITHOUT 70MM POLYAMIDE CONDUIT.	MAA LAXMI INDUSTRY	NIL
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Group Name **UNDER FRAME NPP SIDE**

2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	MAA LAXMI INDUSTRY	197099
1	33640580-1, FEEDR JUNCTION BOX	EDTS328.Rev-C,AM-5,COR-2,TYPE-2	INTERNATIONAL SWITCHGEAR PVT.LTD.	NIL
1	33641110-1, ZS COULING 500A,750V,3-PHASE 50 HZ	EDTS105,REV-E,AM-3,BUT WITH LENGTH OF JUMPER CABLE ON PLUG AND SOCKET SIDE AS 3 MTR & 0.6 MTR RESPECTIVELY & WITHOUT 70MM POLYAMIDE CONDUIT.	S INTERNATIONAL	NIL

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	9077	BOGIE NO	197733	/ 197737	DISPATCH DATE	13-JAN-20
2.	RAILWAY	NR	TYPE OF COACH	LACCNX	COACH NO		197395
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1104	1104		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	87 / 87	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	SVARN INFRATEL, JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	COMPOSITE MODULAR TOILET	HINDUSTAN, SHATABDI				
	7	LAVATORY DOORS	HINDUSTAN, SHATABDI				
	8	WATER TANKS	SHIVALIK, AMIT, MANOJ				
	9	SEAT & BEARTH	OVPL				
	10	BIO-TOILET	RASANDIK				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RASANDIK, RASANDIK, RASANDIK, RASANDIK				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9077	NR	LACCNX	197395	13-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197733				197737			
ii.	Frame No.	ECBT-814				ECBT-892			
iii.	Bolster No.	PD-CA-2113				SECPL-339			
iv.	Axle No.	RWF - R1493		RWF - S2171		RWF - S0966		RWF - R1214	
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	917.07	917.07	917.03	917.03	917.04	917.04
vii.	Wheel Disc No.	08238-8MS8-TZ	08240-8MS8-TZ	61474-9RP9-TZ	21851-8QG2-TZ	06926-8MV5-TZ	61517-9RP9-TZ	05861-8MJ6-TZ	28168-8MR1-TZ
viii.	RB Nos.	22294	25048	24134	21039	22318	22795	22270	22745
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
i. Make & Nos.	AVADH-19-11-3082	AVADH-19-11-3049	AVADH-19-11-3012	AVADH-19-11-3026

Items traceability:					
11.3	Sno.	Item	CMSTL-19-01	CMSTL-19-08	Make
	i.	Primary Outer Spring	CMSTL-19-01	CMSTL-19-01	CMSTL
	ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08	CMSTL
	iii.	Primary Damper	02699, 02688, 02694, 02706	248821, 249576, 248754, 249263	GBEL IAI
	iv.	Secondary Damper	1532, 1529	1196, 1531	GABRIEL
	v.	Lateral Damper	262432	262411	IAI
	vi.	Brake cylinder & Caliper	H19190-600,H19163-600, H19192-600,H19162-600	H19451-600,H19499-600, H19448-600,H19496-600	FTI
	vii.	Brake Disc			KBI
	viii.	Contral arm top			KUMAR
	ix.	Control arm bottom			KUMAR
	x.	Top rubber Pad			AVADH
	xi.	Vertical Bump Stop			AVADH
	xii.	Ball Joint Control arm			AVADH
	xiii.	Lateral Bump stop			AVADH
	xiv.	Traction center make			SARITA
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			AVADH
	xvii.	Traction center elastic			AVADH GMT
	xviii.	Secondary rubber pad			NA
	xix.	Rubber spring			NA
	xx.	Anti roll bar make			SARITA
	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

LACCNX - 9077



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX **Shell No :** 9077 **COACH_NO :** 197395

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 11-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	SAB WABCO INDIA LTD.	30/19/982
1	33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	300369/ 300370/01-2019
2	33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	CPA-7841/01-2019
1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3196



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 & RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	3786249
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	HI-REL POWER ELECTRONICS PVT.LTD	HHPE-19112317

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19-L-3205
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **NON-PP SIDE**

2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	191412995
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL

Group Name **UNDER FRAME**

0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1404
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA, 415/190V, 3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366, REV-Nil, COR-2., Pack	EDTS366, REV-Nil, COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5-119611
0	33640178-0, BATTERY FUSE BOX - VE, as per Drawing: LW71002, ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002, ALT-J.	INTEG ELECTRONICS	2018-05-383
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001, ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001, ALT-I.	ABROL ENGINEERING COMPANY.PVT .LTD	2019-07-751
0	33641729-0, 70AH, 110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0 009-2014, REV-2, PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	GOPAL ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130, TYPE-1, REV-1, COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	KT-1111/04-2019
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015, REV-0.	AMIT ENGINEERS	AE-SB-567
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015, REV-0.	AMIT ENGINEERS	L & T
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197737
0			M.V.ELECTRO SYSTEM PVT.LTD.	NIL
0			S INTERNATIONAL	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197733



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	UNDER FRAME NPP SIDE
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M.V.ELECTRO
SYSTEM
PVT.LTD.

NIL

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INTERNATION
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NIL

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	9078	BOGIE NO	197677	/ 197678	DISPATCH DATE	16-JAN-20
2.	RAILWAY	NR	TYPE OF COACH	LACCNX	COACH NO		197439
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1102	1104		
	v)	CBC (Make)		SANROK	ESCORTS		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/mi		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec		Brake must apply		
8.	Painting Details:		Type of Paint		Make	Average Gloss Value	
	8.1	Paint	PU PAINT		GS	88 / 88	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	SVARN INFRATEL, JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	COMPOSITE MODULAR TOILET	CMT, HIND				
	7	LAVATORY DOORS	CMT, HIND				
	8	WATER TANKS	AMIT, RAIL FAB				
	9	SEAT & BEARTH	OVPL				
	10	BIO-TOILET	RASANDIK, AMIT				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RASANDIK, AMIT, RASANDIK, AMIT				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9078	NR	LACCNX	197439	16-JAN-20

11.1 Wheel & Axle Details:

i.	Bogie No.	197677				197678			
ii.	Frame No.	ECBT-989				ECBT-988			
iii.	Bolster No.	PD-CA-2138				PD-CA-2083			
iv.	Axle No.	RWF - S4280		RWF - S2093		RWF - P7835		RWF - S5273	
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	916.60	916.60	917.20	917.20	917.10	917.10
vii.	Wheel Disc No.	13250-8MR9-TZ	13251-8MR2-TZ	14638-8MR4-TZ	15879-8MT2-TZ	27926-8PR0-TZ	27925-8PR0-TZ	13253-8MR9-TZ	17504-8MX3-TZ
viii.	RB Nos.	21554	22425	21453	23048	12298	22863	22561	23515
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
i.	Make & Nos.	TAYAL-19-11-5624	TAYAL-19-11-5637	TAYAL-19-11-5643	TAYAL-19-11-5623

Items traceability:

11.3	Sno.	Item			Make	
	i.	Primary Outer Spring	STLI-19-02		STLI	
	ii.	Primary inner Spring	STLI-19-08		STLI	
	iii.	Primary Damper	249703, 249409, 249602, 249175		IAI	
	iv.	Secondary Damper	1515, 1493		GABRIEL	
	v.	Lateral Damper	2253		GABRIEL	
	vi.	Brake cylinder & Caliper	B4690-691,B4599-691, B4688-691,B4601-691		KBI	
	vii.	Brake Disc			KBI	
	viii.	Contral arm top			KUMAR	
	ix.	Control arm bottom			KUMAR	
	x.	Top rubber Pad			AVADH	
	xi.	Vertical Bump Stop			AVADH	
	xii.	Ball Joint Control arm			AVADH	
	xiii.	Lateral Bump stop			AVADH	
	xiv.	Traction center make			SARITA	
	xv.	Traction lever make			JI	
	xvi.	Ball joint traction lever			GMT	
	xvii.	Traction center elastic			GMT	
	xviii.	Secondary rubber pad			NA	
	xix.	Rubber spring			NA	
	xx.	Anti roll bar make			SARITA	
	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

LACCNX - 9078



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX Shell No : 9078 COACH_NO : 197439

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 16-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	KNOOR-BREMSE INDIA PVT.LTD	0119242279
1	33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KAPSON (KIND) PUMP SET	19050578/ 19050579
2	33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	CPA-7894/01-2019
1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	AMIT ENGINEERS	3915-H-19



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 & RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4548888
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	HI-REL POWER ELECTRONICS PVT.LTD	HHPE-19112326

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	AMIT ENGINEERS	3910-H-19
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	NON-PP SIDE
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2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	AMIT ENGINEERS	AE-1902240
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL

Group Name	UNDER FRAME
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0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1601
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366,REV-Nil,COR-2., Pack	EDTS366,REV-Nil,COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5-119633
0	33640178-0, BATTERY FUSE BOX - VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-J.	INTEG ELECTRONICS	2018-05-433
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT-I.	ABROL ENGINEERING COMPANY.PVT .LTD	2019-07-6778
0	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0 009-2014,REV-2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	ANKUR ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130,TYPE-1,REV-1,COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	KT-1115/04-2019
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	AE-SB-280
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	AMIT ENGINEERS	L & T
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197677
0			M.V.ELECTRO SYSTEM PVT.LTD.	NIL
0			S INTERNATIONAL	NIL
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197678



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	UNDER FRAME NPP SIDE
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0

M.V.ELECTRO
SYSTEM
PVT.LTD.

NIL

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INTERNATION
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NIL

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	9080	BOGIE NO	197683	/ 197684	DISPATCH DATE	23-JAN-20
2.	RAILWAY	NR	TYPE OF COACH	LACCNX	COACH NO	197440	
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1100	1105		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description	Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm2			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/Sec, After 02 Sec	Brake must apply			
8.	Painting Details:		Type of Paint	Make	Average Gloss Value		
	8.1	Paint	PU PAINT	GS	88 / 88		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	SVARN INFRATEL, JVR				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	COMPOSITE MODULAR TOILET	CMT, SHATABDI				
	7	LAVATORY DOORS	CMT, SHATABDI				
	8	WATER TANKS	SHIVALIK, AMIT, MANOJ				
	9	SEAT & BEARTH	OVPL				
	10	BIO-TOILET	RASANDIK				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RASANDIK, RASANDIK, RASANDIK, RASANDIK				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9080	NR	LACCNX	197440	23-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197683				197684			
ii.	Frame No.	BEC-37				BEC-43			
iii.	Bolster No.	PD-CA-2151				PD-CA-2185			
iv.	Axle No.	RWF - S2083		RWF - S3869		RWF - S1901		RWF - S8149	
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.	917.10	917.10	917.20	917.20	917.10	917.10	917.20	917.20
vii.	Wheel Disc No.	13249- 8MR9-TZ	13252- 8MR9-TZ	14492- 8MQ1-TZ	14493- 8MQ1-TZ	14317- 8MX6-TZ	17507- 8MR4-TZ	17508- 8MX3-TZ	16944- 8MS7-TZ
viii.	RB Nos.	12434	24422	22577	12009	21787	21315	23462	18077
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
i. Make & Nos.	TAYAL-19-11-5627	TAYAL-19-11-5590	TAYAL-19-11-5615	TAYAL-19-11-5646

Items traceability:					
11.3	Sno.	Item	Make		
	i.	Primary Outer Spring	STLI-19-02	STLI-19-02	STLI
	ii.	Primary inner Spring	STLI-19-08	STLI-19-08	STLI
	iii.	Primary Damper	247993, 249597, 249545, 248840	248212, 249713, 247812, 247786	IAI
	iv.	Secondary Damper	1190, 1539	1496, 1538	GABRIEL
	v.	Lateral Damper	2120	2249	GABRIEL
	vi.	Brake cylinder & Caliper	B4572-691,B4745-691, B4570-691,B4746-691	B4548-691,B4674-691, B4677-691,B4673-691	KBI
	vii.	Brake Disc			KBI
	viii.	Contral arm top			KUMAR
	ix.	Control arm bottom			KUMAR
	x.	Top rubber Pad			AVADH
	xi.	Vertical Bump Stop			AVADH
	xii.	Ball Joint Control arm			AVADH
	xiii.	Lateral Bump stop			AVADH
	xiv.	Traction center make			SARITA
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			GMT
	xvii.	Traction center elastic			GMT
	xviii.	Secondary rubber pad			NA
	xix.	Rubber spring			NA
	xx.	Anti roll bar make			SARITA
	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

LACCNX - 9080



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX Shell No : 9080 COACH_NO : 197440

RAILWAY : NR COUPLING TYPE : CBC DATE OF FITMENT: 24-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE		
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0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	KNOOR-BREMSE INDIA PVT.LTD	0119292454
1	33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	300325/ 300326
2	33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	CPA-01-2019
1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	INTEC CORPORATION	19-H-1350



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE
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1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4773482
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	ELECTRONICS EQUIPMENT CO. PVT. LTD.	09190013

Group Name	NON-PP SIDE
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1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	INTEC CORPORATION	19-H-1378
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	NON-PP SIDE
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2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	SIDWAL REFRIGERATION INDUSTRIES PVT. LTD	19113059
1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
Group Name UNDER FRAME				
0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15.RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1928



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME				
0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366,REV-Nil,COR-2., Pack	EDTS366,REV-Nil,COR-2.	ELECTRO WAVES ELECTRONICS PVT, LTD.	WLDT5-115606
0	33640178-0, BATTERY FUSE BOX -VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-J.	INTERNATIONAL SWITCHGEAR PVT LTD.	2019-06-077
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT-I.	INTERNATIONAL SWITCHGEAR PVT LTD	2019-06-067
0	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0009-2014,REV-2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	MEENAKASHI ENGG. WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130,TYPE-1,REV-1,COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	..
Group Name COMPARTMENT				
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015,REV-0.	INTERNATIONAL SWITCHGEARS PVT. LTD.	SBC-RCF--19040040
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015,REV-0.	INTERNATIONAL SWITCHGEARS PVT. LTD.	L & T
Group Name UNDER FRAME PP SIDE				
1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197683
0			NEERA ENTERPRISES	NIL
0			S INTERNATIONAL	NIL
Group Name UNDER FRAME NPP SIDE				



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	UNDER FRAME NPP SIDE			
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2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	S.INTERNATIONALS	197684
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0			MAA LAXMI INDUSTRY	NIL
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0			S INTERNATIONAL	NIL
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)							
1.	SHELL NO	9079	BOGIE NO	197771	/ 197772	DISPATCH DATE	27-JAN-20
2.	RAILWAY	NR	TYPE OF COACH	LACCNX	COACH NO		197441
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	45.6 T					
5.	Carrying Capacity	Seating	72	Sleeping	72	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, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1104	1103		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description		Specified		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm2		06 - 10 Sec		
			Max Pressure in BC		3.80±0.15 Kg/cm2		
			All Brake are applied		OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm2/min		No brake application		
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm2/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	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	SVARN INFRATEL				
	5	VESTIBULE SLIDING DOOR	KALSI				
	6	COMPOSITE MODULAR TOILET	CMT, SHATABDI				
	7	LAVATORY DOORS	CMT, SHATABDI				
	8	WATER TANKS	RAIL FAB, AMIT, MANOJ				
	9	SEAT & BEARTH	OVPL				
	10	BIO-TOILET	RASANDIK				
	11	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	RASANDIK, RASANDIK, RASANDIK, RASANDIK				
10.	10.1	Modification/ Trial (If any): 1-ASPIRATION FIRE/SMOKE DETECTION WITH ALARM SYSTEM AS PER RDSO SPECIFICATION NO. RDSO/2008/CG-04 REV.04, SUPPLIED AND COMMISSIONED BY M/S- SANROK ENTERPRISES , FARIDABAD, CONTACT NO. 09810566723. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S TECHNO EXPERT, JALANDHAR.					
	10.2	Deviations (If any): NIL					



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		9079	NR	LACCNX	197441	27-JAN-20

11.1 Wheel & Axle Details:									
i.	Bogie No.	197771				197772			
ii.	Frame No.	BEC-51				BEC-58			
iii.	Bolster No.	PD-CA-2247				SECPL-379			
iv.	Axle No.	RWF - R2743		RWF - R6656		RWF - S0859		RWF - S2411	
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.	917.20	917.20	917.00	917.00	917.30	917.30	917.00	917.00
vii.	Wheel Disc No.	18092-8MV0-TZ	19864-8PR3-TZ	19867-8PR7-TZ	26770-8PN3-TZ	26379-8MQ5-TZ	26380-8MQ5-TZ	24340-8PQ4-TZ	20464-8PN7-TZ
viii.	RB Nos.	31446	30526	30548	31238	30619	31285	31393	30622
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
i. Make & Nos.	AVADH-19-11-3217	AVADH-19-11-3119	AVADH-19-11-3221	AVADH-19-11-3216

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-01	CMSTL-19-11
	ii.	Primary inner Spring	CMSTL-19-08	CMSTL-19-08
	iii.	Primary Damper	03691, 03691, 03686, 03690	03684, 03682, 03687, 03689
	iv.	Secondary Damper	1742, 1745	1815, 1818
	v.	Lateral Damper	262410	262428
	vi.	Brake cylinder & Caliper	H19323-600,H19185-600, H19203-600,H19230-600	H19441-600,H19283-600, H19432-600,H19434-600
	vii.	Brake Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		AVADH
	xii.	Ball Joint Control arm		AVADH
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		SARITA
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		AVADH
	xvii.	Traction center elastic		AVADH
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	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

LACCNX - 9079



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

TYPE OF COACH : LACCNX **Shell No :** 9079 **COACH_NO :** 197441

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 27-JAN-20

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	PP-SIDE		
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0	33501427-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR AC NAC COACHES, as per Drawing: RDSO/2011/CG-04 REV.01 with am	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	SAB WABCO INDIA LTD.	26/19/885
1	33635080-1, PUMP	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KAPSON INDUSTRIES (KIND) PUMP	19050536/ 19050539
2	33635080-2, PUMP CONTROLLER	EDTS186,REV-A,AM-2,COR-1&2WITH ANNEX.1.	KALSI METAL WORK PVT LTD.	CPA-7992/01-2019
1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	DAULAL RAM INDUS.	126



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

1	33640932-1, GPS BASED P I SYSTEM MBU	RDSO/PE/SPEC/AC/0087,2008,REV-1 & RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
1	33640993-1, PA SYSTEM WITH VOLUME CONTROLLER	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	4773481
2	33640993-2, SPEAKERS	EDTS173,REV-B,COR-2,TYPE-III	AHUJA BY PUNJAB RADIOS	NIL
0	33641419-0, 4.5KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES., as	RDSO/PE/SPEC/AC/0183-2018,REV-1-2018.	ELECTRONICS EQUIPMENT CO. PVT. LTD.	09190007

Group Name **NON-PP SIDE**

1	33635237-1, RMPU	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	DAULAL RAM INDUS.	120
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	NON-PP SIDE
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2	33635237-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0061-2005(REV-1)Type1&MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-1)COMPLETE WITH ACCESS.AS PER SCOPE OF SUPPLY IN THE RDSO SPEC.ALONG WITH MODI.SHEET NO.RDSO/PE/MS/AC/0077-2018,REV0.TYPE-1 FOR LHB & TYPE-1I FOR POWER CAR.	A PAUL INSTRUMENT	1610030
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1	33635330-1, HOT CASE	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
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2	33635330-2, BOTTLE COOLER CUM DEEP FREEZER	EDTS139,REV-E,COR-5.	NOT PROVIDED	NIL
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2	33640932-2, LCD COMPARTMENT	RDSO/PE/SPEC/AC/0087,2008,REV-1 &RDSO/PE/SK/AC/0182-2014,REV-1(20 SHEETS).PIS SHALL HAVE COMMUNICATION PROTOCOL AS PER RDSO/PE/TP/AC/0026-2015,REV-0. SCOPE OF SUPPLY AS PER CLAUSE 1.2 OF THE PIS SPEC EXCLUDING ITEM NO.1.2.7, 1.2.8, 1.2.10,1.2.11,1.2.12 OF THE CLAUSE,DISPLAY PANEL AS PER SKED713.	NOT PROVIDED	NIL
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Group Name	UNDER FRAME
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0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1),WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANN1.	VIMAL TRANSFORMERS	VTC-3089-LHB-1950
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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name UNDER FRAME

0	33635493-0, 5KVA,415/190V,3PHASE DRY TYPE DISTRIBUTION TRANSFORMER, as per Drawing: EDTS366,REV-Nil,COR-2., Pack	EDTS366,REV- Nil,COR-2.	BHASIN PACKARD ELECTRONICS (PVT) LTD.	3199763
0	33640178-0, BATTERY FUSE BOX - VE, as per Drawing: LW71002,ALT- J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-J.	INTERNATION AL SWITCHGEAR PVT LTD.	2019-06-130
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT-I.	INTERNATION AL SWITCHGEAR PVT LTD	2019-06-070
0	33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9MDLS OF 12V EACH PRECHARGED BATTERY(9	RDSO/PE/SPEC/AC/0 009-2014,REV- 2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	01/2019
0	33650184-0, BATTERY BOX MOUNTING, as per Drawing No. : 1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	GOPAL ENGINEERING WORKS	NIL
1	35982925-1, CAPACITOR BANK FOR LHB EOG TYPE COACHES	EDML130,TYPE- 1,REV-1,COR-5.	KONTACT CONSORTIUM INDIA PVT. LTD.	KT-1121/04-2019

Group Name COMPARTMENT

1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	INTERNATION AL SWITCHGEARS PVT. LTD.	SBC-RCF- 19040055
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015,REV-0.	INTERNATION AL SWITCHGEARS PVT. LTD.	L & T

Group Name UNDER FRAME PP SIDE

1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM- 1,COR-6,RCF ANNEXURE-1	MAA LAXMI INDUSTRY	197771
0			NEERA ENTERPRISES	NIL
0			S INTERNATION AL	NIL

Group Name UNDER FRAME NPP SIDE



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RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS				
ROLLING STOCK CERTIFICATE OF				
LHB AC 3 TIER AIR SPRING COACH(WITH SHELL SUB ASLY)				
S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name UNDER FRAME NPP SIDE				
2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6,RCF ANNEXURE-1	MAA LAXMI INDUSTRY	197772
0			NEERA ENTERPRISES	NIL
0			S INTERNATIONAL	NIL
SSE/EL/QC		AME/WM QC/DY CQM I		