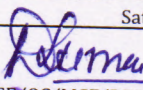


		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली				DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018	
		ROLLING STOCK CERTIFICATE Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1249					
		RLY	NFR	COACH NO	197755/C		
Type	LWSCN1	Shell No.	97575	DISPATCH TO	Sr.DME/DBRG	DATE OF DISPATCH	14/12/2019
1. Railway Board's Order No.		: 2019/M(C)/142/2,DATED-21.11.2019					
2. Tare Weight of Coach		: 41.24 Tonnes					
3. Carrying Capacity		: (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL					
4. Special feature: A Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18							
5. SHELL LEADING DIMENSIONS:							
S NO	DESCRIPTION					DIMENSION (MM)	
1	Maximum length over body					23700	
2	Maximum width over body					3240	
3	Maximum height from Rail Level					4039	
4	CBC height/Buffer height from Rail level 1105 +0/-10					NPP / PP 1095, 1097	
6. TRACEABILITY OF SHELL ITEMS:							
S NO		ITEM		MAKE/SUPPLIER	SERIAL NO		
1	Under	Front	PP END	M/S-M.T.F	253		
		Part	NPP END	M/S-M.T.F	253		
		Complete	M/S-M.T.F	253			
2	Lav. side wall			M/S- ATHANACY RBL	LAV.1	LAV.2	
				M/S- ATHANACY RBL	LAV.4	LAV.3	
3	Side wall	LH SIDE		MCF/RBL(CONT V4U)	342/01		
		RH SIDE		MCF/RBL(CONT V4U)	342/02		
4	End wall	PP END		M/S-SIPL PALWAL			
		NPP END		M/S-SIPL PALWAL			
5	Roof			M/S-ECBT	399		
6	Centre Buffer Coupler			M/s- FRONTIER	PP END	123P1	NPP END 93P2
7. AIR BRAKE TEST REPORT:							
S NO	ITEM	DESCRIPTION			SPEC. VALUE	OBSERVED	
1	Full brake application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ² .			6 - 10 sec.	9Sec	
		Max. pressure in BC			3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²	
		All Brake are applied			OK	OK	
2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.			No brake application	OK	
3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.			Brake must apply	OK	
8. PAINTING DETAILS:							
S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF	
				(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION	
1	Paint	P.U	AXALTA	M/S-EMPRISE	99/93	13/11/2019	
2	Insulation						
Satisfactory  SSE/QC/MCF/RBL							


परिपत्रक नं. 03/2019
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (उ.प्र.)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1249

RLY	N	F	R	Coach No.	1	9	7	7	5	5	/	C	-	DATE OF DISPATCH	1	4	1	2	2	0	1	9
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DISPATCH	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	5	7	5	FUR.NO	LSCN-1365
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192526				192525			
Bogie Type	FIAT				FIAT			
Frame no.	RBL/LS5-756				RBL/LS5-999			
Bolster no.	SECPL-630				SECPL-383			
Axle No	19 P- 2102 RWF		19 P- 2081 RWF		19 L- 5257 RWF		19 N- 9213 RWF	
Wheel Dia	917.449	917.44	917.496	917.475	917.494	917.485	917.437	917.471
Wheel Disc No	TZ 08-19 74370-9SK9	TZ 08-19 73767-9SL1	TZ 08-19 72606-9SK2	TZ 08-19 73151-9SL1	TZ 08-19 74741-9SK7	TZ 07-19 63119-9RS1	TZ 08-19 72616-9SL1	TZ 07-19 62690-9RL5
R.B. Nos.	08-19-29666	08-19-29649	08-19-29858	08-19-29581	08-19-28781	09-19-37076	08-19-29427	08-19-28854
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO. Sr.NO.07-19 2369	TAYAL & CO. Sr.NO.07-19 2336	TAYAL & CO. Sr.NO.07-19 2472	TAYAL & CO. Sr.NO.07-19 2397

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
1.	Yaw Damper	KBI	17580,17359	17351,16870
2.	Primary outer Spring	CMFSK	10-19 1100-114 (2243,2231,2283,1994)	10-19 1100-114 (1962,1902,2346,2338)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (1993,1323,1377,2011)	10-19 1101-101 (2110,2001,1975,1352)
4.	Primary Damper	KONIC	03-19 (04194,04160,04165,02365)	03-19 (05985,07750,05048,00398)
5.	Secondary Damper	KONI/IAI	04-19 (07793,04207)	07-19 (272980,272700)
6.	Lateral Damper	KONI	04-19 05389	04-19 02442
7.	Brake Cylinder	ESCORT	(47789,47632,47631,47788)	(48448,49926,49925,48447)
8.	Brake Caliper	ESCORT	(27358,27250,27249,27357)	(27940,28826,28825,27939)
9.	Brake Disc	FAV	10-19(2479,2478,2498,2500)	10-19(3065,3066,3048,3047)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1906,1906	1906,1906
17.	Check Valve	ESCORT	1906	1906
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF	936,232,412,212	215,117,261,1080
22.	Control Arm Lower	SF	38,20,38,178	342,138,412,9
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC

गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO: MCF/RBL/QMF 8002
REV NO: 01
DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No: MCF/RBL/QC/RSC/2019-20/1249

RLY	NFR	COACH NO	197755/C	DISPATCH TO	Sr.DME/DBRG	DATE OF DISPATCH	14/12/2019
Type	LWSCN1	Shell No.	97575	FUR NO.		LSCN-1365	

12. TRACEABILITY OF FURNISHING ITEMS:

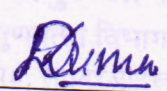
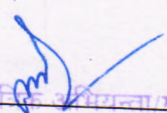
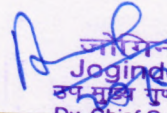
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPPP/PP)
1	Air Brake Module	M/S- ESCORTS	2019040125
2	Distribution valve	M/S- ESCORTS	1904A125
3	Pull box	M/S -KBI	
4	FIBA	M/S- ESCORTS	18080045-18090198
5	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7	Floor board	M/S-SHREE RAM PNL GOVINDGARH	
8	PVC	M/S -RESPONSIVE IND NDLS	
9	Lavatory inlay	M/S-SEEMA INDS BHOPAL	
10	UIC Vestibule (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
12	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-MESIDONE INDS KOLKATA	
15	Emergency Window	M/S-AJC INDS KOLKATA	
16	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
17	Side panel	M/s-WONDER LAMINATE KOLKATA	
18	Roof Ceiling	M/s-ACME INDIA NEW DELHI	
19	Door way Ceiling	M/S-JAAM TOOLS RBL	
20	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
21	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
23	Bio Tank	M/S- JSL LIFE STYLE LTD GURUGRAM	
24	Auxiliary Water Tank	M/S-AMIT ENG. MOHALI	
25	Under Slung Water Tank (2X685L)	M/S-AMIT ENG. BADDI	
26	Under Slung Water Tank (1x450 L)	M/S-SHIVALIK FAST. MOHALI	
27	Health Faucet	M/s-KAPCO VALES JALANDHAR	
28	Lotah Filler Tap	M/s-KAPCO VALES JALANDHAR	
29	Controlled discharge tap	M/s- EAUSET PVT LTD GURGAON	
30	Lavatory Doors	M/S- JR INDS JALNDHAR	
31	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
32	RFID	M/s-TECH SOLUTION GURGAON	Sr.104759, 104760

Sharma
SSE/QC/MCF/RBL

वार 0अनु 0 अभियंता

गुणवत्ता विभाग

रेडिंक 0, रायबरेली (ला.नं. 00)

		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1249					
RLV	REF	COACH NO.	197755/C	DISPATCH TO	DATE OF DISPATCH
Type	LAWSON	Shell No.	97575	St.DME/DBRG	14/12/2019
				FUR.NO.	LSCN-1365
13. MODIFICATION (IF ANY) : NIL					
14. DEVIATION (IF ANY) : NIL					
15. ITEM FITTED ON THE COACH ON TRIAL : NIL					
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE &	
			Frequency	PERIOD OF TRIAL	
16. WARRANTY:					
S NO	COMPONENTS	WARRANTY			
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc (items which are consumable in nature)	NIL			
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30months from the date of supply of material whichever is earlier.			
NOTE:					
1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.					
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.					
3. This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return, of the coach or replacement of complete coach.					
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.					
5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com					
6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from Application for any manufacturing /Application as per clause -4, para- V of RDSO specification no. M&C/PCN/100/2013-Given below					
S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate) Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)	
1	After 1 year	80% of initial gloss	7	5B	
2	After 2 year	70% of initial gloss	6	5B	
3	After 3 year	60% of initial gloss	5	4B	
If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.					
 SSE/QC/MCF/RBL		 SMC/AME/QC/MCF/RBL		 Dy. Chief Quality Manager Modern Coach Factory, Raebareli	



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197755/C
RAILWAY	NFR	ELECT.FIT DATE	13-12-2019
FUR.NO	SCN-1365		
Sr no	Description of test	Remarks	
1.	PUMP EQUIPMENTS	OK	
2.	LIGHTS, NL,LAP CHARGING SOCKETS	OK	
3.	RAILWAY CARRIAGE FAN	OK	
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK	
5.	WORKING OF 9 KVA TRANSFORMER	OK	
6.	WORKING OF REGULATED BATTERY CHARGER	OK	
7.	SAFETIES :		
7.1.	FUSES AND THEIR RATING	OK	
7.2	CONTROL CIRCUIT	OK	
7.3	POWER CIRCUIT	OK	

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-1539 HT Panel Sr no : AE/USBC-1547	EDTS 333, Rev`01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0015 Sr no.1 : 3650 Sr no.2 : 3652 Srno.CPA: sr no -NIL-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : INTEG ELECT.	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : RECORD/SALZER	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : RECORD/SALZER	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: LIGHT ENGG.	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin,Corridor,doorway and Gangway Lights. Make: ENSAVE	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	26
09.	Lavatory Light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D &	04
10.	Night Light Fitting (LED BASED) Sticker For Berth Number On Night light Fitting For LHBSCN(80-BERTHER)Coaches Make : INTRA	CC76289 & CC76443	09

(Signature)

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NON AC SCN COACHES

11.	Battery fuse box +ve Make : SSK	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
13.	Regulated battery charger Make : WAVES Sr no: W4K5G 19113	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-2618	As per RDSO/PE/SPEC/TL 0158, 2010, Rev` 0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev` e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : MV ELECTRO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 190001-60527-0119	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 11/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : NIL	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आपरेटिंग/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr. Electrical Engineer / RCF / RBL