

		Modern Coach Factory Raebareli				DOC NO.: MCF/RBL/QMF 8002	
		आधुनिक रेल डिब्बा कारखाना, रायबरेली				REV NO: 01	
						DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE							
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/444							
RLY	NFR	COACH NO	204715/C			DATE OF DISPATCH	5-Sep-20
Type	LWSCN1	Shell No.	20G097	DISPATCH TO	SSE/C&W/KIR	FUR.NO.	LSCN-1685
1. Railway Board's Order No. : 2020/M(C)/142/2, Dated-01.05.2020							
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	1105/1105
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front	PP END	M/S-NE	05/20		
		Part	NPP END	M/S-NE	05/20		
		Complete	MCFRBL-SIS LINE	61			
2	Lav. side wall	M/S-DTL PUNE	LAV.1	LAV.2			
		M/S-DTL PUNE	LAV.4	LAV.3			
3	Side wall	LH SIDE	MCFRBL-CONT. V4U	565			
		RH SIDE	MCFRBL-CONT. V4U	565			
4	End wall	PP END	M/S-RAIL TECH KXH				
		NPP END	M/S-RAIL TECH KXH				
5	Roof	MCFRBL-CONT.	52				
6	Centre Buffer Coupler	M/S-FRONTIER	PP	131P1	NPP	08P1	
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.	7 sec			
		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	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF	
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION	
1	Paint	P.U	VIBGYOR	M/S-VIBGYOR WOW (S&A)	89/88	18-Aug-20	
2	Insulation	Satisfactory					


 SSE/QC/MCF/RBL

वरि०अनु० अभियंता
 गुणवत्ता विभाग
 रे०डि०का०, रायबरेली (लालगंज)



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/2020-21/444

RLY	N	F	R	Coach No.	2	0	4	7	1	5	/	C	-	DATE OF DISPATCH	0	5	0	9	2	0	2	0
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DISPATCH	SSE/C&W/KIR	Type	L	W	S	C	N	1	Shell No.	2	0	G	0	9	7	FUR .NO	LSCN-1685
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201058				201057			
Bogie Type	FIAT				FIAT			
Frame no.	MIPL-620				MIPL-625			
Bolster no.	MCF/RBL-2306				MCF/RBL-1443			
Axle No	20 V-	9201 RWF	20 V-	9825 RWF	20 Z-	1699 RWF	20 Z-	1650 RWF
Wheel Dia	917.39	917.51	917.385	917.542	917.448	917.525	917.427	917.533
Wheel Disc No	TZ 11-19 82526-9VD9	TZ 03-19 29810-9MH1	TZ 12-19 90945-9WK2	TZ 11-19 84497-9VD1	TZ 05-19 42497-9PI4	TZ 05-19 42496-9PI4	TZ 05-19 49073-9PI2	TZ 12-19 87410-9WI2
R.B. Nos.	12-19 45518	12-19 44541	12-19 44535	12-19 45462	02-20 502195	02-20 501795	11-19 34029	02-20 501165
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- 06-20 9992	TAYAL & CO.... Sr. NO- 06-20 0092	TAYAL & CO.... Sr. NO- 06-20 0089	TAYAL & CO.... Sr. NO- 06-20 9954

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	293991,294483	294609,294091
2.	Primary outer Spring	CMFSK	09-19 1100-(058-881,084-853),10-19 1100-114(831,821)	10-19 1100-116-1255,11-19 1100-115(1237,1265,1435)
3.	Primary Inner Spring	CMFSK	10-19 1101-(1271,1180,906,1215)	11-19 1101-103(1341,1216,1260,1123)
4.	Primary Damper	IAI	01-20 (298807,300411,299640,300849)	01-20 (15328,14912,15321,15318)
5.	Secondary Damper	IAI	01-20 (302713,302867)	01-20 (302692,302157)
6.	Lateral Damper	IAI	11-19 283836	11-19 283958
7.	Brake Cylinder	knorr	c (9992,8587,8589,0012)-k29	c (D0006,8545,6582,9995)-k29
8.	Brake Caliper	knorr	c-(5560,5673,5670,5561)-29	c-(5557,5671,5666,5559)-29
9.	Brake Disc	KBI	24229051 0067-27/20,24229053 0007-27/20 24226797 0003-28/20,24226797 0002-28/20	24229061 0013-29/20,24229047 0065-27/20 24229057 0072-28/20,24229058 0050-28/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	ARYAN/GMT		
16.	Leveling Valve	ESCORT/KNORR	06-20,06-20	09-20 C- 3987,09-20 C -3978
17.	Check Valve	ESCORT/KNORR	06-20	01-2020 23952
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	CC	20G191,20G328,20G130,20G316	20G263,20G282,20G379,20G377
22.	Control Arm Lower	CC	20G242,20G85,19N524,19L71	20B301,20G93,19L479,20G14
23.	Phonic Wheel	KBI	K 06-20	K 05-20

Signature of SSE/Bogie/QC



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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/444

RLY	NFR	COACH NO	204715/C	DATE OF DISPATCH	5-Sep-20
Type	LWSCN1	Shell No.	20G097	DISPATCH TO	SSE/C&W/KIR
				FUR.NO.	LSCN-1685

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	4747 02/20
2	Distribution valve	M/s-KBI	2020A10156
3	Pull box	M/s-KBI	
4	FIBA	M/s-KBI	9070/29,9066/29
5	Foot Step	M/S- FABRICON KOLKATA	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-SHREE RAM PNL	
8	PVC	M/S-RESPONSIVE INDS DELHI	
9	Lavatory inlay	M/S-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-KRP PUNE	
11	UIC Vestibule (NPPE)	M/S-KRP PUNE	
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-RCF KXH	
15	Emergency Window	M/S-FP IR KOLKATA	
16	Lavatory/hopper Window	M/S-BET INDS PUNJAB	
17	Side panel	M/S- HF VADODARA	
18	Roof Ceiling	M/S-A.B COMPOSITE	
19	Door way Ceiling	M/S-ZAAM TOOLS RBL	
20	Body Side Doors	M/s- SVARN INFRATEL	
21	Vestibule Door(PPE)	M/s- JBM INDS FARIDABAD	
22	Vestibule Door(NPPE)	M/s- JBM INDS FARIDABAD	
23	Bio Tank	M/s-OMAX AUTOS LTD	
24	Presurized Flushing(Elect.pneumatic)	M/S-AIR FLOW	
25	Auxiliary Water Tank	M/s- OASIS	
26	Under Slung Water Tank (2X685L)	M/s- OASIS	
27	Under Slung Water Tank (1x685 L)	M/s-SHIVALIK FAST MOHALI	
28	Health Faucet	M/s- KAPCO VALVES JUC	
29	Lotah Filler Tap	M/s- KAPCO VALVES JUC	
30	Controlled discharge tap	M/s-AGMECO PVT LTD	
31	Lavatory Doors	M/S-JR INDS JUC	
32	Seat & Berth	M/S-ADVANCE SILICON PALWAL (SLIDING)	
33	Ventury grill	NIL	
34	RFID	NIL	

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SSE/QC/MCF/RBL



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ROLLING STOCK CERTIFICATE
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/444

RLY	NFR	COACH NO	204715/C	DATE OF DISPATCH	5-Sep-20
Type	LWSCN1	Shell No.	20G097	DISPATCH TO	SSE/C&W/KIR
				FUR.NO.	LSCN-1685

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 Frequency	REFERENCE & 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.

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- 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.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
- 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	SME/AME/QC/MCF/RBL	Dy. CQM/MCF/RBL

अनु० अभियंता
मुख्यत्वा विभाग
आधुनिक रेल डिब्बा कारखाना, रायबरेली

सहायक अभियंता
Assistant Engineer / Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

सुधीर कुमार
Dy. Chief Quality
Modern Coach Factory



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC SCN COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC SCN COACH.

TYPE COACH	LWSCN	SHELL/COACH NO	204715/C
RAILWAY	NFR	ELECT. FIT DATE	03-09-2020
		MCF FUR. NO.	SCN-1685
Sr. no.	Description of tests		Remarks
1.	PUMP EQUIPMENTS		OK
2.	LIGHTS, NL,LAP CHARGING SOCKETS		OK
3.	WORKING OF ACCIDENTAL, EMERGENCY LIGHTS.		OK
4.	RAILWAY CARRIAGE FAN		OK
5.	WHEEL SLIDE PROTECTION SYSTEM (WSP)		OK
6.	WORKING OF 9 KVA TRANSFORMER		OK
7.	WORKING OF REGULATED BATTERY CHARGER/EMERGENCY BATTERY CHARGER.		OK
8.	SAFETY :		--
8.1.	FUSES AND THEIR RATING		OK
8.2.	CONTROL CIRCUIT		OK
8.3.	POWER CIRCUIT		OK

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
01.	Fitment of Switch board cabinet.(set of panel) Make/Sr.no.: TRINITRON On Board: 20/04/TCS/MCF/3451/355/0116 HT Panel: 20/04/TCS/MCF/3451/355/0116	EDTS 355, Rev`01`.Am-3	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: PANTRONICS Sr no.: PAN 20018854	RDSO/PE/SPEC/TL 0158, 2010, Rev`0`,Ty I.	01
03.	Mounting of 09KVA TFR.	As per drg no 1.10113.0.76.300.001,Alt -B.	OK
04.	Provision of Pump equipment with pump box. Make: DR AUTO Sr no : 20/08/0120 Pump 1: 3749 Pump 2: 3687	As per spec no. EDTS186,REV-A,AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: DR AUTO SL.no.: 20/08/0071	As per Spec. EDTS186 Rev-a Am-2, & drg no. CC71328 & LW70020	01
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: PI Sr. no.: 20070327	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : AUTO IND.	EDTS-328 REV-C,AM-4,Type- II,COR-2	01 SET
08.	Provision of IVC dummy Socket assembly.	As per Drg. No. LW71302,Alt-nil	01 SET
09.	Battery fuse box +ve Make : RICHMOND	As per LW 71001,Alt- H	01
10.	Battery fuse box -ve Make : RICHMOND	As per LW 71002,Alt-I	01
11.	Provision of Battery boxes/ Cradles. Make: HITECH	As per Drg. No. 110113.0.76.700.005 W/O item 5,22,23,26 & 27,Alt-C or Latest.	01
12.	Provision of batteries Type: 110 V, 120 AH VRLA SMF Battery Set. Make: HBL Lug Date: 7/19	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET

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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
13.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: SARIA IND.	As per Drg. No. ICF/SK-7-6-158.alt-g. RDSO/PE/SPEC/TL/0021-2005 (Rev-3) with RCF annex-1,am-1.	30
14.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1 .Type-B1. Drg. No. CC76453.	26
15.	Fitment of LED Light fittings for Night Light with berth indication Type-E (1 watt). Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1, ICF/STB-7-6-053.Type- E. Drg. No. CC76461	10
16.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-D. Drg. No. LW76092.	04
17.	Fitment of LED Light fittings for PACIL. Make: KAVERI	As per RDSO/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-I. Drg. No. LW76098.	02
18.	Fitment of Accidental Emergency Light (AEL) Make: INTEG	As per RDSO/SPEC/AC/0180-2016,Rev-0 ,Type-II.	04
19.	Provision of Cable binder	Drg. No. CC76120,Item - 1,2,3.100mm,200mm,300mm respectively.	OK
20.	Provision of Cable Jacket System.	EDTS-138,Cor-2,Item-5,7,8,9,11.	OK

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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
21.	Provision of Switch plate assembly along with mobile charging sockets. Make: SSK	EDML-086, Rev-6, Am-1, Table-1, Item-1.	10
22.	Provision of Switch plate assembly along with mobile charging sockets. Make: SSK	EDML-086, Rev-6, Am-1, Table-1, Item-2.	10
23.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-5, Am-1, Table-1, Item-3.	20
24.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3 ph, 50 Hz). Make: 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	01 SET
25.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	OK
26.	Provision of Wheel Set Earthing equipment. Make:- NPP: DARSHAN ENTERPRISES PP: DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0120265207	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 SET

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

