

		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/2020-21/184							
RLY	CR	COACH NO	204281/C			DATE OF DISPATCH	24-Jul-20
Type	LWSCN1	Shell No.	97948	DISPATCH TO	SSE/STOCK/CR/BB	FUR.NO.	LSCN-1603
1. Railway Board's Order No. : 2020/M(C)/142/2, Dated-24.06.2020 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	1103/1103
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front Part	PP END	M/S-NE			
			NPP END	M/S-NE			
		Complete		MCFRBL V4U-TECHIE	97948		
2	Lav. side wall	M/S-RAIL TECH KXH	LAV.1		LAV.2		
		M/S-RAIL TECH KXH	LAV.4		LAV.3		
3	Side wall	LH SIDE	MCFRBL-V4U-LKO		524		
		RH SIDE	MCFRBL-V4U-LKO		524		
4	End wall	PP END	M/S-SIPL PALWAL				
		NPP END	M/S-SIPL PALWAL				
5	Roof	M/S-TI	86				
6	Centre Buffer Coupler	M/S-FRONTIER	PP	147P2	NPP	163P2	
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.	8 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 OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION	
1	Paint	P.U	ADVANCE	M/S-ADVANCE	89/87	1-Jul-20	
2	Insulation	Satisfactory					


 वरिष्ठ निरीक्षक
 गुणवत्ता विभाग
 रेलवे कारखाना, रायबरेली (लालगंज)



MCF/RBL



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/2020-21/184

RLY	C	R	Coach No.	2	0	4	2	8	1	/	C	-	DATE OF DISPATCH	2	4	0	7	2	0	2	0
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DISPATCH	SSE/STOCK/CR/BB	Type	L	W	S	C	N	1	Shell No.	9	7	9	4	8	FUR .NO	LSCN-1603
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	200155				200156			
Bogie Type	FIAT				FIAT			
Frame no.	vs-2066				VS-2088			
Bolster no.	AMIT-60				AMIT-43			
Axle No	20Y - 4023 RWF	20Y - 3410 RWF		20Y - 3727 RWF	20Y - 3399 RWF			
Wheel Dia	917.459	917.359	917.444	917.33	917.445	917.389	917.476	917.389
Wheel Disc No	DP-19 268-60844	DP-19 268-23515	DP-19 268-23524	DP-19 268-38437	DP-19 697-60792	DP-19 268-23589	DP-19 697-60799	DP-19 697-60786
R.B. Nos.	12-19 39798	12-19 38907	12-19 39590	12-19 38437	12-19 45488	12-19 39330	12-19 35679	12-19 38701
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	cmfsk12-19F08-151-655	CMFSK11-19 5112-80323	CMFSK12-19-F08-151-557	CMFSK11-19-080-0418	CMFSK12-19-F09-151582-	CMFSK11-19-5112-080301	CMFSK12-19-F09-151-558	CMFSK11-19-5112-080-297
Compressed Ht. at Tested Load	512.5	470	513.5	472	511.5	472	513	472
Alignment deviation (mm)	13	9	13	8	10	12	9	11

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	291818,291413	291420,292564
2.	Primary outer Spring	CMAFI	07-19 1100-(345,320,348,317)	07-19 1100-(316,321,292,293)
3.	Primary Inner Spring	CMSTL	07-19 F06-N91-06A-(4846,6469,3657,3531)	07-19 F06-N91-06A-(3520,4148,3870,1368)
4.	Primary Damper	IAI	12-19 (286721,288514,287062,287929)	08-19 267428,09-19 274043,12-19 288088,09-19 274040
5.	Secondary Damper	IAI	01-20 (295770,275691)	01-20 (295745,295771)
6.	Lateral Damper	KONI	03-19 02058	03-19 02073
7.	Brake Cylinder	KBI	C (5922,4624,4600,5939)-K-29	C (4543,3298,3293,4478)-K-29
8.	Brake Caliper	KBI	C-(2215,2278,2279,2218)-29	C-(0005,0989,0991,0003)-29
9.	Brake Disc	KBI	24226789 0030-01/20,24226789 0031-01/20 24226785 0003-01/20,24226785 0002-01/20	24226790 0035-01/20,24226789 0029-01/20 24226790 0037-01/20,24226790 0036-01/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	BASANT/GMT EMSON/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	080120-5,080120-5,130120-1, IRPL -2005C15	140120-3,080120-3,110120-1,090120-5
22.	Control Arm Lower	RVE	090120-5,090120-3,080120-1,080120-1	030120-2,080120-3,090120-5,190120-2
23.	Phonic Wheel	KBI	K 05-20	K 05-20

Signature of SSE/Bogie/QC





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ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/184

RLY	CR	COACH NO	204281/C	DATE OF DISPATCH	24-Jul-20
Type	LWSCN1	Shell No.	97948	DISPATCH TO	SSE/STOCK/CR/BB
				FUR.NO.	LSCN-1603

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	4796 03/20
2	Distribution valve	M/s-KBI	2020A10217
3	Pull box	M/s-KBI	
4	FIBA	NIL	
5	Foot Step	M/S- SUPER SPARKS LTD FARIDABAD	
6	Decoupling arrangement	M/S-ELASTOMER MUMBAI	
7	Floor board	M/S-SHREE RAM PNL	
8	PVC	M/S-RESPONSIVE INDS.	
9	Lavatory inlay	M/S-SEEMA INDS 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-EXCEL INDS KOLKATA	
15	Emergency Window	M/S-FP KOLKATA	
16	Lavatory/hopper Window	M/S-BEI 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- JBM FARIDABAD	
21	Vestibule Door(PPE)	M/s- JBM FARIDABAD	
22	Vestibule Door(NPPE)	M/s- JBM FARIDABAD	
23	Bio Tank	M/s-JSL LIFE STYLE	
24	Presurized Flushing(Elect.pneumatic)	M/S-IMI	
25	Auxiliary Water Tank	M/s- AMIT ENGG.MOHALI	
26	Under Slung Water Tank (2X685L)	M/s- RAIL TECH KXH	
27	Under Slung Water Tank (1x685 L)	M/s- AMIT ENGG.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-JVR INDS	
32	Seat & Berth	M/S-OVPL SILICON MUMBAI (SLIDING)	
33	Ventury grill	NIL	
34	RFID	NIL	

Alma

SSE/QC/MCF/RBL

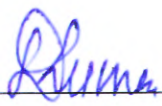
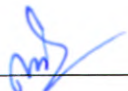
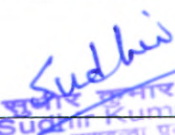
वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)



MCF/RBL

		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/2020-21/184						
RLY	CR	COACH NO	204281/C	DATE OF DISPATCH		24-Jul-20
Type	LWSCN1	Shell No.	97948	DISPATCH TO	SSE/STOCK/CR/BB	FUR.NO. LSCN-1603
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 qualityrcfrbl@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		 SME/AME/QC/MCF/RBL वरिष्ठ यंत्रिक अभियंता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli		 Dy. QCM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli		



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC COACH.						
TYPE COACH		LWSCN		SHELL/COACH NO		204281/C
RAILWAY		CR	ELECT. FIT DATE	21-07-2020	MCF FUR. NO.	LSCN-1603
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





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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.: AMIT ENGG. On Board: AE/USBC/1827 HT Panel: AE/USBC/1778	EDTS 355, Rev`01'.Am-3	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: PANTRONIC Sr no.: PAN 20018832	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: KIND Sr no : 0004 Pump 1: 20050077 Pump 2: 20050078	As per spec no. EDTS186.REV-A.AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: KIND SL.no.: 20050061	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: WAVES Sr. no.: W4K5B 201479	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : MV ELECTROSYSTEMS	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 : AECO	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: AMARA RAJA Lug Date: 02/19	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: KAPSONS	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: AGASTYA	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: SALZER	EDML-086, Rev-6, Am-1, Table-1, Item-1.	10
22.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	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 : 0120114700	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 SET

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
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

