



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/2019-20/1213

RLY	N	F	R	Coach No.	1	9	7	7	4	0	/	C	DATE OF DISPATCH	1	0	-	1	2	-	1	9
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DISPATCH TO	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	3	0	2	FUR.NO.	LSCNG-268
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1. Railway Board's Order No. : 2019/M(C)/142/2, Dated-21-11-2019
2. Tare Weight of Coach : 41.24 Tones
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (c) Luggage: NIL
4. Special feature: -

S NO	DESCRIPTION	MAKE/SUPPLIER
A.	Epoxy flooring in lavatory	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
B.	Anti slip friendly Grab Bar	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
C.	Provision of Health Faucet in lavatories	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
D.	Washbasin counter Top (Corian of Duport or Montelli)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
E.	GFRE ceiling instead of NFTC	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
F.	DGFRP panels instead of LP panels	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
G.	Honey Comb partition frame with DGFRP sheet instead of FRP sheet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA
H.	Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA

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
		1) 1103 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-TACPL	03/10
	Complete	NPP END M/S-TACPL	03/10
2.	Lav. side wall	M/S- ATHANCY RBL	03/10
		M/S- ATHANCY RBL	LAV.1 - LAV.2 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	LAV.3 - LAV.4 -
		RH SIDE MCF/RBL(CONTRACTOR V4U)	74/01
4.	End wall	PP END M/s- RAIL TECH KXH	74/02
		NPP END M/s- OMAX REWARI	--
5.	Roof	M/S-ECBT	--
6.	Centre Buffer Coupler	M/s- ESCORT LTD.	226
		PP END 1053 NPP END 9585	

7. AIRBRAKE 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 . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ± 0.15 kg/cm ² . OK	08 Sec. 3.0 kg/cm ² 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	M/s-VIBGYOR	M/s-VIBGYOR	90/89	19.07.19
2.	Insulation			Satisfactory		

Signature
SSE/QC/MCF/RBL
वरिष्ठ अनुष्ठानिक अभियंता
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: 16.05.2016

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DISPATCH	Sr.DME/DBRG	Type	L	W	S	C	N	1	Shell No.	9	7	3	0	2	FUR.NO	LSCN-G-268
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192334				192333			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-2797				SCI-2798			
Bolster no.	SECPL-297				AMIT-493			
Axle No	19 P- 2099 RWF		19 S- 4593 RWF		19 S- 4883 RWF		19 S- 0777 RWF	
Wheel Dia	917.477	917.459	917.308	917.604	917.571	917.457	917.601	917.471
Wheel Disc No	TZ 07-19 61878-9RP7	TZ 07-19 72670-9SK4	TZ 07-19 72253-9RL2	TZ 07-19 68430-9RN2	TZ 08-19 73438-9RR5	TZ 07-19 71123-9QI4	TZ 08-19 72947-9SL0	TZ 07-19 67561-9RL3
R.B. Nos.	07-19-20446	09-19-22429	07-19-18069	09-19-22940	09-18-21367	09-18-22996	09-18-21599	09-18-61651
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.19-09 3750	TAYAL & CO. Sr.NO.19-09 3726	TAYAL & CO. Sr.NO.19-09 3778	TAYAL & CO. Sr.NO.19-09 3742

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18429,16010,	18433,18427
2.	Primary outer Spring	CMFSK	10-19 1100-078 (27,25,64,19)	10-19 1100-078 (35,66,57,169)
3.	Primary Inner Spring	CMFSK	10-19 1101-101 (13,52,42,12)	10-19 1101-101 (236,235,94,268)
4.	Primary Damper	KONIC	03-19 (03812,03782,00517,01017)	03-19 (01028,03410,03409,03100)
5.	Secondary Damper	KONI	04-19 (00658,00336)	04-19 (00403,00348)
6.	Lateral Damper	KONI	04-19 01972	04-19 01979
7.	Brake Cylinder	KBI	B(9769,8696,8698,9789)K-29	B(9669,9265,8674,8675)K-29
8.	Brake Caliper	KBI	B(6629,6662,6663,6630) -29	B(65191,6655,6654,6589) -29
9.	Brake Disc	KBI	24203757 0076-42/19,24203757 0033-42/19 24203757 0079-42/19,24203757 0078-42/19	24203755 0007-42/19,24203757 0003-42/19 24203757 0060-42/19,24203757 0057-42/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	19 B- 7202,19B-7210	19 B- 7696,19B-
17.	Check Valve	KNORR	20314	20161
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	SARITA		
21.	Control Arm Upper	RVE	270819-2,270819-4,270819-2,270819-4	290819-2,290819-2,290819-3,290819-2
22.	Control Arm Lower	RVE	290819-3,290819-3,290819-2,290819-2	180819-2,180819-2,180819-3,180819-2
23.	Phonic Wheel	KBI	K-05-19	K-05-19

Signature of SSE/Bogie/QC

वरिष्ठ अनुसंधान अभियंता
गुणवत्ता विभाग
रेलवे कारखाना, रायबरेली (सहजगंज)





Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DISPATCH TO		Sr.DME/DBRG			Type	L	W	S	C	N	1	Shell No.	9	7	3	0	2	FUR.NO.	LSCNG-268		

12. TRACEABILITY OF FURNISHING ITEMS:

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- ESCORT ENT.	
2.	Distribution valve	M/S- ESCORT ENT.	2019070023
3.	Pull box	M/S- KBI, FARIDABAD	1907A023
4.	Fiba Device	M/S- ESCORT ENT.	PP-18110314
5.	Foot Step		NPP-18110274
6.	Decoupling arrangement	M/s- SUPER SPARK PVT. LTD. FARIDABAD	
7.	Floor board	M/S-ELASTOMER LINING WORKS, MUMBAI	
8.	PVC	M/s-TWPL MUMBAI	
9.	Lavatory Inlay	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
10.	UIC Vestibule (PPE)	M/S- SEEMA INDS. BHOPAL	
11.	UIC Vestibule (NPPE)	M/S-SUNCREST PUNE	
12.	Gangway bridge mounting (PPE)	M/S-SUNCREST PUNE	
13.	Gangway bridge mounting (NPPE)	M/s-RAKESH IRON & STEEL WORKS, KXH	
14.	Body Side Window	M/s-RAKESH IRON & STEEL WORKS, KXH	
15.	Emergency Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
16.	Hopper Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
17.	Side panel	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
18.	Roof ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
19.	Door way ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
20.	Partition frame	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
21.	Partition pillar	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
22.	Body Side Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
23.	Vestibule Door(PPE)	M/s- JBM INDS FARIDABAD	
24.	Vestibule Door(NPPE)	M/s- JBM INDS FARIDABAD	
25.	Bio Tanks with ele.pneu.flushing	M/s- JBM INDS FARIDABAD	
26.	Auxiliary Water Tank	M/S- JSL LIFESTYLE GURGAON & IMI	
27.	Under Slung Water Tank(2X685L)	M/s- AMIT ENG. MOHALI	
28.	Under Slung Water Tank (1X685L)	M/s- SHIVALIK FAST. MOHALI	
29.	Health Faucet	M/s- SHIVALIK FAST. MOHALI	
30.	Lotah Filler Tap	M/s- KAPCO VALVES JALANDHAR	
31.	Controlled Discharge Tap	M/s- KAPCO VALVES JALANDHAR	
32.	Lavatory Doors	M/s- AGMECO PVT LTD UK	
33.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
34.	Snack Table	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
35.	RFID	N/A	

Signature
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेलवे डिब्बा कारखाना, रायबरेली (लालगंज)





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DISPATCH TO	Sr.DME/DBRG			Type	L	W	S	C	N	1	Shell No.	9	7	3	0	2	FUR.NO.	LSCNG-268			

13. MODIFICATION (IF ANY)

: Partition frame & Partition will

13. MODIFICATION (IF ANY)

: Partition frame & Partition pillar

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, 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 30 months 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 date of 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/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ अनु अभियंता
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

वरिष्ठ यांत्रिक अभियंता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

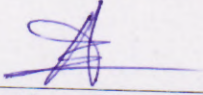
DATE: 18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	197740/C
RAILWAY	NFR	ELECT.FIT DATE	10-12-2019
Sr no	Description of test	FUR.NO	SCN-G-268
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

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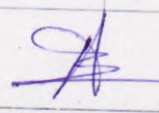
DATE:18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-1555 HT Panel Sr no : AE/USBC-1556	EDTS 333, Rev`01`Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2019/08/0135 Sr no.1 : 3664 Sr no.2 : 3625 Srno.CPA: 2019/11/0180-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SALZER/RECORD	EDML 086,Rev-03, ITEM-01	20
06.	Fitment of Switch Plate Assly Corridor Side),Make : SALZER/RECORD	EDML 086, Rev 03, ITEM-02	20
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: ORIENT	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin,Corridor,doorway and Gangway Lights. Make: RT VISION	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


Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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FOR ELECTRICAL ITEMS

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11.	Battery fuse box +ve Make : SSK	LW 71001, Alt-F	01
12.	Battery fuse box -ve Make : ISGPL	LW 71002, Alt-F	01
13.	Regulated battery charger Make : SIGNOTRON Sr no: 11190657	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2637	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 : AECO	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101, REV-C, AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180641-60147-0033	M/s : ESCORT	01 set
19.	110V, 120AH, VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED, WITH 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 : HITECH	CC 91205	01

वरिष्ठ अनुभाग अभियन्ता

SSE/EL/QC

मुख्य निर्यंत्रण
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

