



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/2018-19/565

RLY	C	R	-	Coach No.	1	8	1	7	6	0	/	C	DATE OF DISPATCH	2	6	-	0	9	-	1	8
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DISPATCH TO	Sr.DME(COG)BB	Type	L	W	S	C	N	1	Shell No.	8	7	1	2	9	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2 Dated-14-09-2018
- Tare Weight of Coach : 41.24 Tones
- Carrying Capacity : (a) Seating : 80 (b) Sleeping : 80 (c) Luggage : NIL

4. 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) 1097 (NPPE)	2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER		SERIAL NO				
1.	Underframe	Front Part	PP END	M/S DTL ancillaries ltd pune	29			
			NPP END	M/S DTL ancillaries ltd pune	29			
	Complete	M/S DTL ancillaries ltd pune		29				
2.	Lav.side wall	M/S JSL COMP.		LAV.1	----	LAV.2	----	
		M/S JSL COMP.		LAV.3	----	LAV.4	----	
3.	Side wall	LH SIDE	MCF/RBL (CONTRACTOR V4U)		99			
		RH SIDE	MCF/RBL (CONTRACTOR V4U)		99			
4.	End wall	PP END	M/s AMIT ENG.		---			
		NPP END	M/s AMIT ENG.		---			
5.	Roof	M/S-ORIENT		12				
6.	Centre Buffer Coupler	M/S Sanrok faridabad		PP END	7135	NPP END	7118	

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	08Sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec. 	Brake must apply	OK

7. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/s -BERGER	Supply & apply	89/87
2.	Insulation			Satisfactory	

(Signature)
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेलवे मंत्रालय, रायबरेली (जालमज)





MODERN COACH FACTORY, RAEBARELI

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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181407				181408			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-758				VS-1228			
Bolster no.	MCF/RBL-1833				AMIT-622			
Axle No	18 D- 8024 RWF		18 D - 8165 RWF		18 E- 0365 RWF		18 E - 0423 RWF	
Wheel Dia	917.569	917.629	917.68	917.663	917.515	917.612	917.575	917.662
Wheel Disc No	TZ02-18 06317-8MH2	TZ07-18 32772-8RG5	TZ04-18 13699-8MR5	TZ05-18 16581-8MQ2	TZ12-17 34031-7SH6	TZ12-17 34030-7SH6	TZ03-18 07093-8MV9	TZ03-18 07095-8MV9
R.B. Nos.	05-18 36623	04-18 26098	02-18 15938	02-18 16944	05-18 27819	04-18 25378	04-18 26705	04-18 25876
CT R B Make	SKF		SKF		SKF		SKF	

9. 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.	CMGBD06-18- 5101-78-178	CMGBD03-18- 5100-40-498	CMGBD06-18- 5101-78-193	CMGBD03-18- 5100-41-423	CMGBD06-18- 5101-79-175	CMGBD04-18- 5100-38-45	CMGBD06-18- 5101-78-179	CMGBD03-17- 5100-27-70
Compressed Ht. at Tested Load	516	472	516	472	516	472	516	470
Alignment deviation (mm)	6	12	7	12	9	5	6	5

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	189,171	440,77
2.	Primary outer Spring	CMGBD	06-18-1100- (74-390,67-365,72-408,74-363)	06-18 1100(76-345,74-401,74-362,69-360)
3.	Primary Inner Spring	CMGBD	05-18 1101-57-253,06-18 1031-30-3018 03-18-1031-30-3017,04-18 1101-36-513	04-18 1101 402(290,26,663,689)
4.	Primary Damper	KNORR	11-17 13706,12-17 13543, 12-17 13582,11-17 13694	11-17(13705,13702,13728,13704)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 4242	06-18 4031
7.	Brake Cylinder	ESCORT	40558,40389,40410,40501	44218,44085,44084,44219
8.	Brake Caliper	ESCORT	22771,22644,22665,22684	24398,24219,24218,24399
9.	Brake Disc	FAV	08-18(1416,1415,1026,1027)D133561-300	08-18(1482,1481,1346,1511)D133561-300
10.	Ball Joint Control Arm	PRAG/AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	050818-3,030818-3,060818-3,020818-3	RVE,030718-2,RVE,RVE
22.	Control Arm Lower	RVE	RVE,030818-1,RVE,RVE	050818-2,030818-1,030818-1,RVE

Signature of SSE/Bogie/QC





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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2018070040
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A8040
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S Shri ram pnl, govindgerh (PB)	
7.	PVC	M/s Responsive ind.mumbai	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-ELASTOMER MUMBAI	
10.	UIC Vestibule (NPPE)	M/s-ELASTOMER MUMBAI	
11.	Gangway bridge mounting (PPE)	M/s RAKESH IRON STORE, KXH	
12.	Gangway bridge mounting (NPPE)	M/s RAKESH IRON STORE, KXH	
13.	Body Side Window	M/s EXCEL .KOLKATA	
14.	Emergency Window	M/s AGF .KOLKATA	
15.	Hopper Window	M/s Aikon ind.salon H.P	
16.	Side panel	M/S- SUNGLOW LAMINATE, PUNJAB	
17.	Roof ceiling	M/s -SYANTHETIC KOLKATA	
18.	Door way ceiling	M/s RAJA INDS. KHANNA	
19.	Body Side Door	M/s JVR LDH	
20.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
21.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
22.	Bio Tank	M/s FLASH FORGE VIZAG	
23.	Auxiliary Water Tank	M/s MANOJ . mohali	
24.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
25.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. . mohali	
26.	Flexible Faucet	M/S KAPCO VALVES,JALANDHAR	
27.	Lotah Filler Tap	M/S KAPCO VALVES,JALANDHAR	
28.	Controlled Discharge Tap	M/s Kalsi Pumps, JALANDHAR	
29.	Lavatory Doors	M/s KALSI LDH	
30.	Seat & Berth	M/s NARMADA FOREST BHOPAL	
31.	Snack Table	N/A	

SSE/QC/MCF/RBL

मुद्रांकित
रेडिंकॉ, रायबरेली (सलभाज)





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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

15. 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 qualityrcfrbl@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 गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. COM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NON AC SCN COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC COACHES

TYPE COACH	LWSCN	SHELL/COACH NO	181760/C
RAILWAY	CR	DATE OF DESPATCH	
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





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-531 HT Panel Sr no : AE/USBC-660	EDTS 333, Rev `01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : KALSI Sr no PA: 7246/06/18 Sr no.1 : 293278 Sr no.2 : 293279 Sr no.CPA: 7335/07/18	As per spec EDTS 186,Rev-a, Am- 2	01
03.	Emergency light system for EOG type coaches (AEL), Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
04.	Passenger Alarm Cum Indication Light (PACIL) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I	02
05.	Fitment of Switch Plate Assly(Cabin Side) Make : SSK	EDML 086,Rev-03, ITEM-01	10
06.	Fitment of Switch Plate Assly Corridor Side),Make : SSK	EDML 086, Rev 03, ITEM-02	10
07.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : CG POWER	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
08.	Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	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 ELECT.	CC76289 & CC76443	10


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11.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
12.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
13.	Regulated battery charger Make : NAREN ELECT. Sr no: 1808406	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : PANTRONICS Sr no : PAN-17016625	As per RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
15.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL	As per spec No EDTS 105,Rev`e' Am-3, TYPE-2	01 set
16.	Feeder junction boxes. Make : ELECOS	EDTS-328 REV-C	01 set
17.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
18.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 170170-12040-0005	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : HLB Lug date : 07/2018	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
20.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

 SSE/EL/QC	 SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL
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वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आउटरेडिंका/ तालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow

