

	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002
		REV NO: 00
		DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/578

RLY	C	R	-	Coach No.	1	8	1	7	7	5	/	C	DATE OF DISPATCH	2	8	-	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	3	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) 1095 (NPPE) 2) 1100 (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 33
			NPP END M/S DTL ancillaries ltd pune 33
	Complete	M/S DTL ancillaries ltd pune 33	
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) 83
		RH SIDE	MCF/RBL (CONTRACTOR V4U) 83
4.	End wall	PP END	M/s AMIT ENG ---
		NPP END	M/s AMIT ENG --
5.	Roof	M/S ORIENT	13
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 7215 NPP END 7145

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	08 Sec. 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 -GS	Supply & apply	89/86
2.	Insulation			Satisfactory	


 SSE/QC/MCF/RBL

गुणवत्ता विभाग
 रेडिओका, रायबरेली (लालमज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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RLY	C	R	-	Type	L	W	S	C	N	1	Shell No.	8	7	1	3	9	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181433				181434			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-1908				VS-1220			
Bolster no.	SFPL-259				AMIT-802			
Axle No	18 F- 7843 RWF		18 F - 8586RWF		18 G- 3430 RWF		18 F - 9125 RWF	
Wheel Dia	917.512	917.649	917.506	917.618	917.515	917.592	917.528	917.605
Wheel Disc No	TZ07-18 34893-8QL8	TZ06-18 30135-8RG4	TZ07-18 34894-8QL6	TZ07-18 32684-8QP3	TZ06-18 31016-8QN2	TZ06-18 30187-8QP7	TZ06-18 30144-8QM6	TZ06-18 30193-8QM6
R.B. Nos.	06-18 12093	04-18 24851	06-18 11400	05-18 36445	04-18 24845	01-18 10813	02-18 15325	04-18 24043
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- 5101-78-172	CMGBD03-18- 5100-40-615	CMGBD06-18- 5101-78-207	CMGBD03-18- 5100-40-439	CMGBD06-18- 5101-78-235	CMGBD03-18- 5100-40-562	CMGBD06-18- 5101-78-139	CMGBD03-18- 5100-40-530
Compressed Ht. at Tested Load	513	472	512	472	515	472	516	469
Alignment deviation (mm)	6	6	6	6	6	11	6	12

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	100,115	102,105
2.	Primary outer Spring	CMFSK	04-18 1036-406 (680,669,742,609)	04-18 1036-406 (677,998,666,608)
3.	Primary Inner Spring	CMFSK	04-18 1101-402 (697,164,677,684)	04-18 1101-402 (508,613,617,661)
4.	Primary Damper	KNORR	07-18(26623,27618,26620,27619)	07-18(27612,26618,27609,26666)
5.	Secondary Damper	GEREP	KW 17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	KNORR	06-18 3946	06-18 3760
7.	Brake Cylinder	ESCORT	40516,40416,40417,40515	44696,45178,45176,44644
8.	Brake Caliper	ESCORT	22699,22671,22672,22698	24755,25117,25115,24753
9.	Brake Disc	FAV	08-18(1185,1272,1307,1271)D133561-300	08-18(1174,1170,1186,1331)-D133561-300
10.	Ball Joint Control Arm	PRAG/AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
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/PRAG		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	020818-3,04318-2, RVE,RVE,	120818-2,140818-2,160818-2,200818-1
22.	Control Arm Lower	RVE	170818-1,140818-1,160818-1,140818-1	170818-1,RVE,170818-1,170818-4

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	201808043
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1808A0043
4.	Foot Step	M/s Super spark pvt. ltd. Faridabad	
5.	Decoupling arrangement	M/s-ELASTOMER MUMBAI	
6.	Floor board	M/S TWPL MUMBAI	
7.	PVC	M/s ACME INDIA NDLS	
8.	Lavatory Inlay	M/s OASIS INDS. JAGADHARI	
9.	UIC Vestibule (PPE)	M/s-KRP MUMBAI	
10.	UIC Vestibule (NPPE)	M/s-KRP MUMBAI	
11.	Gangway bridge mounting (PPE)	M/s COMPETENT ENG.JALANDHAR	
12.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.JALANDHAR	
13.	Body Side Window	M/s ACME INDIA NDLS	
14.	Emergency Window	M/s ACME INDIA NDLS	
15.	Hopper Window	M/s ACME INDIA NDLS	
16.	Side panel	M/s ACME INDIA NDLS	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way ceiling	M/s ACME INDIA NDLS	
19.	Partition frame	M/s ACME INDIA NDLS	
20.	Partition pillar	M/s ACME INDIA NDLS	
21.	Body Side Door	M/s JVR LDH	
22.	Vestibule Door(PPE)	M/s JBM Faridabad	
23.	Vestibule Door(NPPE)	M/s JBM Faridabad	
24.	Bio Tank	M/s FLASH FORGE VIZAG	
25.	Auxiliary Water Tank	M/s MANOJ ENT . mohali	
26.	Under Slung Water Tank(2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
27.	Under Slung Water Tank (1X685L)	M/s AMIT ENG. mohali	
28.	Flexible Faucet	M/s ACME INDIA NDLS	
29.	Lotah Filler Tap	M/s ACME INDIA NDLS	
30.	Controlled Discharge Tap	M/s HINDWARE ,(HSIL LTD) GURGAON	
31.	Lavatory Doors	M/s ACME INDIA NDLS	
32.	Seat & Berth	M/s ACME INDIA NDLS	
33.	Snack Table	N/A	

Lalman

SSE/QC/MCF/RBL

वरि०अनु० अभियंता

गुणवत्ता विभाग

रे०डि०का०, रायबरेली (खालवज)



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12. MODIFICATION (IF ANY) : Partition frame & Partition pillar

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 मुख्यता विभाग रेडिडका, रायबरेली (मध्यप्रदेश)	AME/QC/MCF/RBL Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.COM/MCF/RBL उप मुख्य मुखयता प्रबन्धक Dy. Chief Quality Manager 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	181775/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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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

01.	Switch board cabinet Make : AMIT ENGG. On Board Sr no : AE/USBC-551 HT Panel Sr no : AE/USBC-633	EDTS 333, Rev `01'Am-1	01
02.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA: 2018/09/013 Sr no.1 : 18060274 Sr no.2 : 18060305 Sr no.CPA: 2018/09/016	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: KAVERI	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 : ELECTROWAVES LTD.	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: RT VISION	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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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

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 : M.B & COMP. Sr no : 2017-12-528	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
14.	9KVA transformer Make : VIMAL Sr no : -1019	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 : ISG	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 : 180055-59399-0076	M/s : ESCORT	01 set
19.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 07/18	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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गुणवत्ता नियंत्रण
रायबरेली कारखाना / लाहौर / रायबरेली
S.S.E/EL/QC/M.C.F./L.U./RBL

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

