



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/2018-19/647
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	2	0	/	C	-	DATE OF DISPATCH	1	4	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/IBP	Type	L	W	S	-	-	Shell No.	8	6	0	2	7	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
2. Tare Weight of Coach : 40.66 Tonnes
3. Carrying Capacity : (a) Seating: 100 (b) 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)1105 (NPPE) 2)1101 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe Front Part	PP END M/S Manjit techno fab raebareli	193
		NPP END M/S Manjit techno fab raebareli	193
	Complete	M/S Manjit techno fab raebareli	193
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 M/S E.c.blades & tool pvt. Ltd CDG	-
		RH SIDE M/S E.c.blades & tool pvt. Ltd CDG	-
4.	End wall	PP END M/S Neera chandigarh	-
		NPP END M/s AMIT ENG.	-
5.	Roof	MCF/RBL	30
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3842 NPP END 4012

6. 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

7. PAINTING DETAILS:

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	72/90
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL





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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	2	7	-	-	-	-	-

8. DETAIL OF BOGIES:


ITEMS	NPP Side				PP Side			
Bogie No	180677				180678			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-260				MCF/RBL/LS5-250			
Bolster no.	MCF/RBL/LS5-202				MCF/RBL/LS5-248			
Axle No	18 F-9281	RWF	18 F - 9363	RWF	17 Z-4250	RWF	18 F - 8647	RWF
Wheel Dia	917.571	917.453	917.556	917.438	917.565	917.466	917.579	917.425
Wheel Disc No	TZ06-18 28718-8QL8	TZ06-18 28720-8QL8	TZ06-18 28716-8QM8	TZ05-18 19762-8PN1	TZ06-18 30682-8QN0	TZ06-18 30681-8QN0	TZ06-18 30683-8QN0	TZ05-18 19761-8PN1
R.B. Nos.	05-18 39416	05-18 40311	05-18 29606	05-18 11634	05-18 11504	05-18 11530	05-18 27606	05-18 12559
CT R B Make	SKF		SKF		SKF		SKF	

9. SECONDARY SUSPENSION

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1070	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-1124	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1207	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05 1234

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	657,561	652,562
2.	Primary outer Spring	CMGBD	06-18-1100-72(72-141,72-137,69-238,67-224)	06-18 1100-(69-230,72-220,69-132,69-158)
3.	Primary Inner Spring	CMGBD	05-18 1101 (57-81,56-864,57-798,57-174)	05-18 -1101(58-98,57-151,57-151,56-796)
4.	Primary Damper	KNORR	07-18(26884,26877,26875,26882)	07-18(26880,26866,26881,26865)
5.	Secondary Damper	GEREP	17-2017 301550739	17-2017 301550739
6.	Lateral Damper	GEREP	17-2017 301550559	17-2017 301550559
7.	Brake Cylinder	FAV	H18-541,G18-578,G18-554,H18-322	H18(556,486,581,542)
8.	Brake Caliper	FAV	K18(339,337,078,080)B	K18(328,326,338,340)B
9.	Brake Disc	FAV	09-18(1763,1701,1705,1706,)D133561-300	09-18(1764,1762,1892,1891)D133561-300
10.	Ball Joint Control Arm	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.	Leveling Valve	FAV	G18-238,G18-262	G18-249,G18-244
17.	Check Valve	FAV	G18-072	F18-146
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	030818-2,RVE,RVE,120818-3	200818-1,RVE,120818-2,170818-2
22.	Control Arm Lower	RVE	140818-1,030818-3,030818-2,RVE	030818-1,140818-1,160818-1,140818-1


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 Faively transport tech.india ltd baddi(HP)	D18043B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045527B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	FIBA	M/s Escorts ltd railway equipment FBD	PP END NPP END
5.	Foot Step	M/s Super spark pvt.ltd. faridabad	
6.	D-coupling arrangement	M/s Kohinoor Industries Faridabad	
7.	Floor board	M/s TWPL MUMBAI	
8.	PVC	M/s Premier polyfilm, New Delhi	
9.	Lavatory Inlay	N/A	
10.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
11.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
12.	Gangway Bridge mounting(PPE)	M/s COMPETENT ENG JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETENT ENG JALANDHAR	
14.	Body Side Window	M/s KINECO LTD GOA	
15.	Emergency Window	M/s KINECO LTD GOA	
16.	Hopper Window	M/s KINECO LTD GOA	
17.	Roof ceiling	M/s KINECO LTD GOA	
18.	Door way gangway ceiling	M/s KINECO LTD GOA	
19.	Body Side Doors 1,2,3,4,6	M/s SUKATA CDG	
20.	Body Side Doors5,	M/s JBM FARIDABAD	
21.	Vestibule door(PPE)	M/s KALSI LDH	
22.	Vestibule door (NPPE)	M/s KALSI LDH	
23.	Bio Tank	M/s M.K. METAL	
24.	Overhead Water Tank(4X390L)	M/s RAIL FAB KXH	
25.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
26.	Lavatory Doors	M/s KINECO LTD GOA	
27.	Fire Extinguisher	M/s FIRE BITE	NPP-2447,PP-2452
28.	Water purified	M/s PRAG POLYMER	PP-2/322,NPP-2/303
29.	Seat & Berth	M/s KINECO LTD GOA	
30.	Luggage Rack	M/s KINECO LTD GOA	
31.	Light Luggage Rack	M/s KINECO LTD GOA	

SSE/QC/MCF/RBL

रेलवे मंत्रालय, नई दिल्ली



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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 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	AME/QC/MCF/RBL	Dy. Chief Quality Manager

रेलवे मंत्रालय, रायबरेली (उत्तर प्रदेश)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareliआधुनिक 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 DD COACHES

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG NON AC GS COACHES			
SHELL/COACH NO	18420/C	TYPE COACH	LWS/DDF
RAILWAY	WCR	DATE OF DESPATCH	
Sr no	Description of test	Remarks	
2.	LIGHTS, 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
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01.	Switch board cabinet Make : SSK On Board Sr no : 2017-10-301 HT Panel Sr no : 2017-08-218	EDTS 333, Rev`01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : CONCORD CONTROL SYSTEM.	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: KAVERI	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-I Drg no. LW 76098.	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : IMT CABLES.	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Provision of Cabin, Corridor, doorway and Gangway Lights. Make: DR AUTO	As per RDSO/PE/SPEC/TL- 0091(REV-1) TYPE B-1	28
08.	Provision & Mounting of Lavatory Light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-D & Drg no. LW 76092.	04

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09.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
11.	Regulated battery charger Make : HIREL Sr no: 17100956	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017719	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 25/18/1037	M/s : FAIVELEY	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : AMARA RAJA Lug date : 08/18	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC	SEE(P)/MCF/RBL
DyCEE/P&P/MCF/RBL	

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आधुनिक रेल डिब्बा कारखाना / रायबरेली
S.S.EJ/Elect-QC/M.C.F./LLJ/RBL

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

