



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/2018-19/646
(DEEN DAYALU)

RLY	W	C	R	Coach No.	1	8	4	2	1	/	C	-	DATE OF DISPATCH	1	4	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/JBP	Type	L	W	S	-	-	Shell No.	8	6	0	3	5	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2018/M(C)/142/2, Dated 16.05.2018
- Tare Weight of Coach : 40.66 Tonnes
- 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)1100 (NPPE) 2)1103 (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	196
		NPP END M/S Manjit techno fab raebareli	196
	Complete	M/S Manjit techno fab raebareli	196
2.	Lav.side wall	M/S JSL COMP	LAV.1 - LAV.2 -
		M/S JSL COMP	LAV.3 - LAV.4 -
3.	Side wall	MCF/RBL(V4U CONTRACTOR)	42
		MCF/RBL(V4U CONTRACTOR)	42
4.	End wall	PP END M/s Shivalic fastners pvt.ltd. mohali	-
		NPP END M/s Shivalic fastners pvt.ltd. mohali	-
5.	Roof	MCF/RBL	36
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3959 NPP END 3921

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	07 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	79/88
2.	Insulation			Satisfactory	

चरिन्द्रियामा
SSE/QC/MCF/RBL

रेडिफाउ, रायबरेली (उ.प्र.)





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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180620				180619			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-82				MCF/RBL/LS5-97			
Bolster no.	MCF/RBL/LS5-415				MCF/RBL/LS5-204			
Axle No	17 W-3677 RWF		17 W - 8198 RWF		17 W-2390RWF		17 W - 3534 RWF	
Wheel Dia	917.524	917.572	917.515	917.565	917.533	917.512	917.509	917.585
Wheel Disc No	TZ03-17 01093-7NL0	TZ03-17 01542-6QJ0	TZ03-17 08802-70J7	TZ03-17 08803-70J7	TZ03-17 02963-7NL9	TZ03-17 02964-7NL9	TZ03-17 03476-7NL3	TZ03-17 02962-7NL9
R.B. Nos.	11-17 18759	10-17 18246	10-17 18480	11-17 22500	11-17 18762	11-17 17986	11-17 18761	11-17 18043
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. 18-02-891	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-05-811	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-02 810.	TAYAL COMMERCIAL PVT.LTD.SR.NO. 18-02 812

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	GEREP	372,349	341,288
2.	Primary outer Spring	CMFSK	01-18 1036-376(1153,1213,1049,1075)	01-18 1036-376(1143,1136,1163,1139)
3.	Primary Inner Spring	CMGBD/RSK	04-18 1101-36(434,725,353,326)	02-18 -064(1292,1551,1556,1951)
4.	Primary Damper	KNORR	12-17(13925,13802,13858,13853)	12-17(13861,13308,13863,13610)
5.	Secondary Damper	GEREP	17-2017 301550739	KW 17-2017 301550739
6.	Lateral Damper	GEREP	17-2017 301550559	KW 17-2017 301550559
7.	Brake Cylinder	FAV	B18-(596,502,500,598)	B18(035,475,474),A18-406
8.	Brake Caliper	FAV	C18(171,170,169,172)B	C18(204,202,201,203)B
9.	Brake Disc	FAV	04-18(4035,4034,4159,4158),D133561-300	04-18(4031,4031,4037,4036)D133561-300
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SF		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Leveling Valve	FAV	E18-357,E18-372	E18-399,E18-360
17.	Check Valve	FAV	E18-182	E18-201
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ S-BLOC, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR	D9539,D5800,N8811,N8610	D9802,D5804,D6809,D9806
22.	Control Arm Lower	KUMAR	D8897,D8611,D9598,D9802	N9841,D9833,D1960,N8842

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)	D18023B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18045516B
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 18050181 18050182
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	M/s SUKATA CDG	
20.	Body Side Doors 5,6	M/s JVR LDH	
21.	Vestibule door(PPE)	M/s KALSI LDH	
22.	Vestibule door (NPPE)	M/s KALSI LDH	
23.	Bio Tank 2,4	M/s FLASH FORGE VIZAG	
24.	Bio Tank 1,3	M/s M.K. METAL	
25.	Overhead Water Tank(4X390L)	M/s RAIL FAB KXH	
26.	Bib Cock/Controlled Discharge Tap	M/s Jaquar ltd. ALWAR	
27.	Lavatory Doors	M/s KINECO LTD GOA	
28.	Fire Extinguisher	M/s FIRE BITE	NPP-2449,PP-2450
29.	Water purified	M/s PRAG POLYMER(PP),WM JALANDHER (NPP)	PP-2/325,NPP-2/069
30.	Seat & Berth	M/s KINECO LTD GOA	
31.	Luggage Rack	M/s KINECO LTD GOA	
32.	Light Luggage Rack	M/s KINECO LTD GOA	

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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. QM/MCF/RBL

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उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
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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	18421/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
Modern Coach Factory Raebareli



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PAGE 2 OF 3

01.	Switch board cabinet Make : SSK On Board Sr no : 2017-10-283 HT Panel Sr no : 2017-08-208	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 : ELECTROWAVES LTD.	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 : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : HIREL Sr no: 17100977	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-18017710	As per RDSO/PE/SPEC/TL 0158,2010, Rev` 0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : S.INTERNATIONAL.	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 earthing equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 24/18/1031	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	

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गुणवत्ता नियंत्रण
लखनऊ/रायबरेली / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

