

D-89



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/2018-19/345
(DEEN DAYALU)

Coach No.		1	8	4	1	4	/	C	-	DATE OF DISPATCH					2	9	-	0	7	-	1	8		
RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	0	9	-	2	0	1	8	-	1	9

- Railway Board's Order No. : 2017/M(C)/142/2, Dated 20.03.2018
- 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)1099(NPPE) 2)1100(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO		ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Underframe	Front Part	M/S S.F.P.L,MOHALI		PP END	21	NPP END	21	
		Complete	M/S S.F.P.L,MOHALI						
2.	Side wall		M/S V4U CONTRACTOR		RH	86009	LH	86009	
3.	End wall	PP	M/S AMIT ENG.		PP END	86009	NPP END	86009	
4.		NPP	M/s KEPL/Punchkula						
5.	Roof		M/S MCF/13						
6.	Centre Buffer Coupler		M/S ESCORT LTD.FARIBAD		PP END	3312	NPP END	3851	
7.	Buffers		N.A.						

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	06 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 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	88/88
2.	Insulation			Satisfactory	

Deen Dayalu
वरिष्ठ अभियंता
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (जालगाँव)



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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180643				180644			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-1782				SCI-1789			
Bolster no.	VS-55				MCF/RBL/LS5-469			
Axle No	17W-3572 RWF		17W-3593 RWF		17W-8025 RWF		17W-2496 RWF	
Wheel Dia	917.565	917.574	917.555	917.554	917.523	917.558	917.537	917.56
Wheel Disc No	TZ03-17 07926-70J8	TZ05-17 19417-7PI3	TZ05-17 19415-7OK8	TZ03-17 03936-7NK8	TZ05-17 19412-7PL3	TZ05-17 07547-7OL0	TZ05-17 07924-70J8	TZ05-17 19414-7PL3
R.B. Nos.	02-18 12304	12-17 25965	02-18 12283	12-17 25678	02-18 12213	02-18 12749	12-17 25526	02-18 12294
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-18-05-1271	TAYAL COMMERCIAL PVT.LTD SR.NO-18-05-1204	TAYAL COMMERCIAL PVT.LTD SR.NO-18-05-1137	TAYAL COMMERCIAL PVT.LTD SR.NO-18-05-1085

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	YAW Damper	KNORR BREMSE	9865,9863	9862,9864
2.	Primary outer Spring	CMGBD	04-18 1100-49(16,10,1,3)	04-18 1100-49(98,97,86,44)
3.	Primary Inner Spring	CMGBD	04-18 1101-36 (695,662,732,8)	04-18 1101-36(252,745,738,742)
4.	Primary Damper	IAI	03-18(201707,201640,201582,201803)	03-18(201626,201753,201625,201756)
5.	Secondary Damper	IAI	03-18(202509,202549)	03-18(202562,202522)
6.	Lateral Damper	GEREP	KW 301550569	KW 301550569
7.	Brake Cylinder	KBI	A(5404,4886,4874,5402)K29	A(5397,4840,4841,5405)K29
8.	Brake Caliper	KBI	A(3919,3962,3963,3920)-29	A(3918,3960,3961,3921)-29
9.	Brake Disc	FAV	05-18(5163,5164,5108,5109)D133561-300	05-18(5028,5029,5165,5162)D133561-300
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SF/SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	S-BLOC		
16.	Leveling Valve	ESCORT	1805,1805	1805,1805
17.	Check Valve	ESCORT	1806	1806
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	170518-2	240518-2,300518-3,170518-2,170518-2
22.	Control Arm Lower	RVE	030518-2,030518-2,150518-2,030518-2	020518-3,030518-2,020518-2,020518-2

Signature of SSE/Bogie/QC





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RLY	W	C	R	Type	L	W	S	-	-	-	Shell No.	8	6	0	0	9	-	2	0	1	8	-	1	9
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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	PASS18F3133
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018F5353
3.	Pull box	M/s KBI Faridabad. New Delhi	
4.	FIBA	M/s KBI Faridabad. New Delhi	PP END NPP END
5.	Foot Step	M/s Super spark pvt.ltd.faridabad	1134/29 0823/29
6.	D-coupling arrangement	M/s-ELASTOMER, MUMBAI	
7.	Floor board	M/s TWPL ,MUMBAI	
8.	PVC	M/s Premier polyfilm, GHAZIABAD	
9.	Lavatory Inlay	M/s Oasis Fabrication Jagdhari	
10.	UIC Vestibule (PPE)	M/s-ELASTOMER MUMBAI	
11.	UIC Vestibule (NPPE)	M/s-ELASTOMER MUMBAI	
12.	Gangway Bridge mounting(PPE)	M/s COMPETANT ENG, JALANDHAR	
13.	Gangway Bridge mounting(NPPE)	M/s COMPETANT ENG,JALANDHAR	
14.	Body Side Window	M/s AGF Kolkata	
15.	Emergency Window	M/s EXCEL IND., Kolkata	
16.	Hopper Window	M/s Aikon ind.salon H.P	
17.	Roof ceiling	M/s ACME INDIA NDLS	
18.	Door way gangway ceiling	M/s ACME INDIA NDLS	
19.	Body Side Doors	M/s JVR, INDUSTRIES ,LDH	
20.	Vestibule door(PPE)	M/s-HANSPAL COACH PRODUCT,KXH	
21.	Vestibule door (NPPE)	M/s-HANSPAL COACH PRODUCT,KXH	
22.	Bio Tank 1,2,3	M/s M.K.PRECISION	
23.	Bio Tank 4	M/s RAIL FAB KXH	
24.	Overhead Water Tank(1X390L) 4	M/s AMIT ENG. MOHALI	
25.	Overhead Water Tank(3X390L) 1,2,3	M/s AMIT ENG. MOHALI	
26.	Bib Cock/Controlled Discharge Tap	M/s ACME INDIA NDLS	
27.	Lavatory Doors	M/s ACME INDIA NDLS	
28.	Fire Extinguisher	M/s A.K.IND.NDLS	NPP-1405,PP-1504
29.	Water purified	M/s PRAG LKO	NPP-2/236,PP-2/238
30.	Seat & Berth	M/s DURABLE IND. PVT.LKO	
31.	Luggage Rack	M/s DURABLE IND. PVT.LKO	
32.	Light Luggage Rack	N/A	

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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, curtain 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.COM/MCF/RBL
गुणवत्ता विभाग आधुनिक रेल डिब्बा कारखाना, रायबरेली 300310, रायबरेली (लखनऊ)	सहायक यांत्रिक अभियंता / गुणवत्ता Assistant Mechanical Engineer/Qual'ty 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

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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	18414/C	TYPE COACH	LWS/DDG
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 : AMIT ENGG. On Board Sr no : AE/USBC-734 HT Panel Sr no : AE/USBC-684	EDTS 333, Rev`01`Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTRA ELECT.	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: DR AUTO	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 : CONCORD,IMT 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: RT VISION	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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FOR ELECTRICAL ITEMS

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09.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
11.	Regulated battery charger Make : WAVES Sr no: 184445	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : PANTRONICS Sr no : PAN-17017245	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 : ELECOS	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 : KNORR Sr no : 0118145314	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIH MODIFIED TRAY TOSKED-644 Make : SOUTHERN Lug date : 11/17	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 वरिष्ठ उद्योग अभियन्ता आररेडिओ/लालमंज/रायबरेली S.S.E./Elect-QC/M.C.F./RBL	 SEE(P)/MCF/RBL DyCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr. Electrical Engineer / RCF / RBL / Lucknow
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