



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/2018-19/142
(HUMSAFAR)

Coach No.				1	7	1	3	6	/	C	-	DATE OF DISPATCH				3	1	-	0	5	-	1	8		
RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	3	0	7	-	2	0	1	7	-	1	8

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated. 18.12.2017
2. Tare Weight of Coach : 45.6 Tones
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1100 NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	M/S E.c.blades & tool pvt. Ltd CDG
		Complete	M/s Shivalic fastners pvt.ltd. mohali
2.	Side wall	M/S MCF/RBL	RH 73307 LH 73307
3.	End wall	PP END M/S P.D.STEEL	PP END 73307 NPP END 73307
		NPP END M/S P.D.STEEL	
4.	Roof	M/S DTL ancillaries ltd pune	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 3309 NPP END 3260
6.	Buffers	n.a	

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 DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S- NEROLAC	SUPPLY & APPLY	77/87
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग

रेडिंक, रायबरेली (लाजगंज)



MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	3	0	7	-	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180205				180206			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-789				MCF/RBL-0797			
Bolster no.	SFPL-275				SFPL-282			
Axle No	17 B- 8335 RWF		17 D - 1504 RWF		17 D- 1635 RWF		17 D - 2691 RWF	
Wheel Dia	917.517	917.537	917.473	917.515	917.527	917.591	917.519	917.576
Wheel Disc No	TZ-05-17 11257-70M2	TZ 05-17 13572-70K5	TZ 05-17 18644-70K4	TZ 05-17 18645-70K4	TZ-05-17 17588-70K8	TZ 05-17 18300-70L3	TZ 05-17 18707-7PL4	TZ 05-17 17570-70Q5
R.B. Nos.	11-17 16373	11-17 15780	11-17 16430	01-18 01120	11-17 16571	11-17 15368	11-17 16418	01-18 00114
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

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.	CMGBD02-18-83619-38	RSK-722	CMGBD02-18-83619-86	RSK-677	CMGBD02-18-83619-6	RSK-758	CMGBD02-18-83619-51	RSK-758
Compressed Ht. at Tested Load	514	468	514	468	515	468	515	466
Alignment deviation (mm)	12	30	12	30	12	33	12	33

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	SV	25,26	62,68
2.	Primary outer Spring	CMGBD	11-17 411-139(182,207,178,250)	11-17 411-139 (196,195,202,174)
3.	Primary Inner Spring	CMFSK	02-18 7143-396(66,175,409,117)	02-18 7143(111-196,386-106,386-63,386-145)
4.	Primary Damper	KNORR	12-17(13910,13537,14081,14103)	12-17 14075,11-17 13708,12-17(13554,13536)
5.	Secondary Damper	IAI	01-18 (195744,195798)	01-18 (198571,195770)
6.	Lateral Damper	SV	06-17 019524	06-17 019524
7.	Brake Cylinder	FAV	A0800K29,A0564K29,A0523K29,A0813K29	A0816K29,A0496K29,A567K29,A0798K29
8.	Brake Caliper	FAV	9803-29,9861-29,9806-29,9804-29	9814-29,9754-29,9862-29,9801-29
9.	Brake Disc	KBI	24124433 0029-05/18,24124433 0026-05/18 24124431 0068-04/18,24124430 0004-04/18	24124431 0025-04/18,24124431 0033-04/18 24124431 0027-04/18,24124431 0026-04/18
10.	Ball Joint Control Arm	MTC		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI07-17		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ BONY		
20.	Fork make	SARITA		
21.	Control Arm Upper	PTC/RVE/SAF	5080,6763,120218-3,5804	5787,6746,5080,6763
22.	Control Arm Lower	PTC/RVE/SAF	5277-496,227,110218-2,5277-500	5135-400,290,239,5264-471

Signature of SSE/Bogie/QC



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RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	3	0	7	-	2	0	1	7	-	1	8
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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	0229 03/18
2.	Pull box	M/s KBI Faridabad. New Delhi	
3.	Distribution valve	M/s KBI Faridabad. New Delhi	2017M4115
4.	Foot Step	M/s SSIPL Mumbai	
5.	Decoupling arrangement	M/s Kohinoor Industries Faridabad	
6.	Floor board	M/S Twpl mumbai	
7.	PVC	M/s Premier polyfilm, New Delhi	
8.	UIC Vestibule (PPE)	M/s-Suncrest ind.kolkata	
9.	UIC Vestibule (NPPE)	M/s-Suncrest ind.kolkata	
10.	Gangway bridge mounting (PPE)	M/s Mahaveer matel works Kapurthala	
11.	Gangway bridge mounting (NPPE)	M/s Mahaveer matel works Kapurthala	
12.	Body Side Window	M/s Hindustan fibre ltd vadodara	
13.	Emergency Window	M/s Hindustan fibre ltd vadodara	
14.	Lavatory/hopper Window	M/s Hindustan fibre ltd vadodara	
15.	Roof Ceiling	M/s Hindustan fibre ltd vadodara	
16.	Door way /gang way ceiling	M/s GANDHI Jalandhar	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Automatic fire & smoke detection sys	M/S Sanrok faridabad	
19.	Partition panel	M/s Hindustan fibre ltd vadodara	
20.	Partition pillar	M/s Hindustan fibre ltd vadodara	
21.	Automatic odour cont.system	M/s Hindustan fibre ltd vadodara	
22.	Side Wall panel	M/s Hindustan fibre ltd vadodara	
23.	AC Trough	M/s GEEPEE GURGAON	
24.	Body Side Doors,	M/s SUKATA CDG	
25.	Compartment Door (PPE)	M/s KALSI LDH	
26.	Compartment Door (NPPE)	M/s KALSI LDH	
27.	Vestibule Door(PPE)	M/s JBM FARIDABAD	
28.	Vestibule Door(NPPE)	M/s JBM FARIDABAD	
29.	CCTV (06 NOS)	M/s PANJAB RADIO	
30.	Bio Tank	M/s Rasandik eng.ltd	
31.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
32.	Under Slung Water Tank (2X685L)	M/s Amit Engg. Baddi	
33.	Under Slung Water Tank (1x450 L)	M/s Amit Engg. mohali	
34.	Flexible Faucet	M/s-HF Glass vadodara	
35.	Lotah Filler Tap	M/s-HF Glass vadodara	
36.	Bib cock	M/s JAQUAR LTD ALWAR	
37.	Lavatory Modoules	M/s Hindustan fibre ltd vadodara	
38.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
39.	Waste Bin Arrangement	M/s Hindustan fibre ltd vadodara	
40.	Fire Extinguisher	M/s ATTACK MUMBAI	NPP-75018,PP-75006
41.	Seat & Berth	M/s Hindustan fibre ltd vadodara	
42.	Light Luggage Rack	M/s Hindustan fibre ltd vadodara	
43.	Snack Table	M/s Hindustan fibre ltd vadodara	

वरील अर्थाने
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओकां०, रायबरेली (लालमंज)



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RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	3	0	7	-	2	0	1	7	-	1	8

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 Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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 Qua
गुणवत्ता विभाग	सहायक यांत्रिक अभियंता/ गुणवत्ता	आधुनिक रेल डिब्बा कारखाना
रेडिओका, रायबरेली (लालगंज)	Assistant Mechanical Engineer/Quality	Modern Coach Factory



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

HS-219

DOC NO.: MCF RBL QEF 8001

REV NO: 00

DATE: 18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	17136/C
RAILWAY		ECR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01			
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.			
	Observed status : HEALTHY			
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE		OK
3.1	Fresh Air	29.16 Cub mtr/min		OK
3.2	Return Air	43.58 Cub mtr/min		OK
3.3	Exhaust Air	5.94 Cub mtr/min		OK
3.4	Conditioned Air	156.33 Cub mtr/min		OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition PP Side :22.3 °C NPP Side :21.1 °C			OK
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. Not done			OK

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ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU (NPP side): 2481-C Sr no of RMPU (PP side) : 2482-C Sr no of Microprocessor: AE-18.02.439	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 117-04/2018	As per spec no . EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2018/03/094 Sr no.1 : 18030058 Sr no.2 : 18030086 Sr no.CPA : 2018/03/060	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : EYYANI	EDTS331, TYPE-1 CORR.-1&2	02
05.	Provision & mounting of Passenger area light(Cabin) Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L & Drg no LW76090	09
06.	Provision & mounting of Corridor Light with Night light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M & Drg no LW76091	09
07.	Provision & mounting of Doorway/ Gangway light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	07
08.	Provision & Mounting of PACIL Assly. Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02
09.	Provision & Mounting of Toilet indication light, Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	04
10.	Provision & Mounting of Lavatory Light Make : CMT	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	04
11.	Provision of Emergency Lighting system Make : VGS	As per EDTS151,REV-C, AM-2	01SET
12.	Provision of terminal strip with flanges Make : WAGO	As per EDML-034 Rev -A	01SET


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
13.	Terminal connector Make : WAGO	EDML 037,Rev`a'	04
14.	Provision of single switch 06A, 220V AC, One way complete with steel plate & cover frame, Make : SSK	spec EDML-064,REV-B, Item 04,	09
15.	Provision of Single Switch 06A/250V,AC, One Way complete with Steel plate & cover frame, Make : SSK	As per spec EDML-064,REV-B, Item 05,	09
16.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	36
17.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	01 set
18.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 03/2018	EDTS 129,Rev nil	01 set
19.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : KONTACT	As per LW 71002,Alt-F	01
22.	Emergency battery charger Make : M.B COMP. Sr no: 2017/12/630 Make : M.B COMP Sr no: 2017/12/570	EDTS 163,Rev `c' corg.-2&3	02
23.	Provision of 5KVA TFR Make : VIMAL SL.no : 352	As Per EDTS-366,REV-NIL & CC-71510	01
24.	Provision of capacitor Bank Make : ISG SL.no: CB-MCF-18-01-0243	As per EDML-130 Rev-1,Corr-1	01
25.	60KVA transformer Make : AUTOMATIC Sr no : 3/18/T510483/174	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
26.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105, Rev 'e' Am-2	01 set
27.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
28.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101, REV-C, AM-1	02 sets
29.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0117413867	M/s : KNORR	01 Set
30.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : ZUMAX	As per EDTS -139, Rev- E ,Sec II.	01
31.	Provision of reading light for berth transverse (LHS) Make : AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F4	18
32.	Provision of reading light for berth transverse berth (RHS) Make : DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F3	18
33.	Provision of reading light for longitudinal berth (LHS) Make : RT VISION	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F1	9
34.	Provision of reading light for upper berth Make : DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F2	27
35.	GPS PASSENGER INFORMATION SYSTEM FOR LHB AC-3TIER HUMSAFFER COACHES Make: UNIVERSAL CONTROLS MBU SL No: 0111 1. LCD (NPP) SL.No: 0213-B 2. LCD (PP) SL.No : 0213-A	RDSO/SPEC/AC/0087-2008(REV-1) & RDSO/PE/SK/AC/0182-2015 & RDSO/PE/TP/AC/0026-2015, REV-0	01 SET

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