



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/2017-18/622

Coach No.	1	7	1	2	1	/	C	-	DATE OF DISPATCH	1	0	-	0	3	-	1	8
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RLY	E	C	R	-	Type	L	W	A	C	C	N	Shell No.	7	3	1	8	9	-	2	0	1	7	-	1	8
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- Railway Board's Order No. : 2017/M/(C)/142/2 dated -01-11-2017
- Tare Weight of Coach : 45.6 Tonnes
- 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) 1104 (NPPE) 2) 1105 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

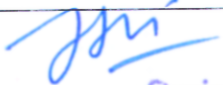
5. TRACEABILITY OF SHELL ITEMS							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Underframe	Front Part	M/S Sidhu ind.corporation KXH	PP END	995	NPP END	990
		Complete	M/S MCF/RBL				
2.	Side wall		M/S MCF/RBL	RH	73189	LH	73189
3.	End wall	PP END	M/s Shivalic fastners pvt.ltd. mohali	PP END	73189	NPP END	73189
		NPP END	M/s Shivalic fastners pvt.ltd. mohali				
4.	Roof		M/S DTL ancillaries ltd pune				
5.	Centre Buffer Coupler		M/S Sanrok faridabad	PP END	5736	NPP END	5709
6.	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	07sec. 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	MCF	92/91
2.	Insulation			Satisfactory	


SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

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8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	171389				171390			
Bogie Type	FIAT				FIAT			
Frame no.	VS/RBL-688				MCF/RBL-800			
Bolster no.	AMIT-352				AMIT-242			
Axle No	17Z-2585 RWF		17A-8359 RWF		17W-7837 RWF		17Y-2731 RWF	
Wheel Dia	917.517	917.495	917.519	917.492	917.502	917.500	917.505	917.495
Wheel Disc No	TZ05-17 15399-70P5	TZ05-17 15398-70P5	TZ05-17 18116-70L3	TZ05-17 15067-70KO	TZ05-17 15068-70KO	TZ05-17 15069-70KO	TZ05-17 16994-70N2	TZ05-17 16995-70N2
R.B. Nos.	09-17 11838	07-17 07775	09-17 12130	07-17 008193	09-17 012859	07-17 07514	09-17 012892	07-17 08066
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.	CMGBD-01-18-5117-10-181	CMFSK-01-18-9513-354-76	CMGBD-01-18-83610-177	CMFSK-01-18-9513-354-83	CMGBD-01-18-5117-10-171	CMFSK-01-18-9513-354-152	CMGBD-01-18-5117-10-74	CMFSK-01-18-9513-354-165
Compressed Ht. at Tested Load	514	468	515	468	514	465	514	468
Alignment deviation (mm)	12	11	12	11	08	09	08	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	277,225	214,217
2.	Primary outer Spring	CVFSK	11-17-7411-344(444,228,156,247)	11-17-7411-344(407,151,60,186)
3.	Primary Inner Spring	CMGBD	01-18-143154(527,562,493,545)	01-18-143154(551,524,463,534)
4.	Primary Damper	KNORR	09-17(11631,12080,11620,11270)	09-17(11625,11627,11256,11630)
5.	Secondary Damper	GABRIEL	09-17(689,685)	05-17(685,684)
6.	Lateral Damper	SV	06-17 019524	06-17 0195
7.	Brake Cylinder	ESCORT	37538,37757,37758,37536	37512,37711,37708,37515
8.	Brake Caliper	ESCORT	20786,20909,20910,20784	20760,20879,20876,20763
9.	Brake Disc	KBI	24119149-0007-52-17,24119149-0006-52-17, 24119144-0007-52-17,24119146-0033-52-17,	24119146-0038-52-17,24119146-0039-52-17, 24119146-0037-52-17,24119147-0010-52-17,
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI-07-17		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/BONY		
20.	Fork make	SARITA/EMSON		

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	2017080020
2.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
3.	Distribution valve	M/S Escorts ltd railway equipment FBD	1708A020
4.	Foot Step	M/s Super spark pvt.ltd.faridabad	
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 SSIPL Mumbai	
9.	UIC Vestibule (NPPE)	M/s SSIPL Mumbai	
10.	Gangway bridge mounting (PPE)	M/s Mahaveer metal workshop KXH	
11.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal workshop KXH	
12.	Body Side Window	M/s Rail tech KXH	
13.	Emergency Window	M/s Rail tech KXH	
14.	Lavatory/hopper Window	M/s Aikon ind.salon H.P	
15.	Roof Ceiling	M/s-Century polymer vadodara	
16.	Door way /gang way ceiling	M/s Rail experts . jalandhar	
17.	Supply Air Duct	M/s Gandhi ENT. Jalandhar	
18.	Partition panel	M/s Rail tech KXH	
19.	Partition pillar	M/s Rail tech KXH	
20.	Side Wall panel	M/s-KAE ENGG.U.K	
21.	AC Trough	M/s MSL CDG	
22.	Body Side Door	M/s JBM Faridabad	
23.	Compartment Door (PPE)	M/s Hanspal coach products KXH	
24.	Compartment Door (NPPE)	M/s Kalsi LDH	
25.	Vestibule Door(PPE)	M/s Hanspal coach products KXH	
26.	Vestibule Door(NPPE)	M/s JBM Faridabad	
27.	Bio Tank	M/s Rasandik Ind.	
28.	Auxiliary Water Tank	M/s Shivalic fastners pvt.ltd. mohali	
29.	Under Slung Water Tank (2X685L)	M/s Amit Engg. Baddi	
30.	Under Slung Water Tank (1x450 L)	M/s Amit Engg. Baddi	
31.	Flexible Faucet	M/s-HF Glass vadodara	
32.	Lotah Filler Tap	M/s-Metco delhi	
33.	Bib cock	M/s JAQUAR LTD.ALWAR	
34.	Lavatory Modoules	M/s Hindustan fibre ltd vadodara	
35.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
36.	Waste Bin Arrangement	M/s Hindustan fibre ltd vadodara	
37.	Fire Extinguisher	M/s FIRE PLUS	NPP-2995,PP-3151
38.	Seat & Berth	M/s Ananya rail coach	
39.	Light Luggage Rack	M/s- Techno ind. ALD	
40.	Snack Table	M/s- International tractors ltd. Hoshiarpur	

SSE/QC/MCF/RBL

वारेडि०का०, रायबरेली (लालगंज)

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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 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 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.

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गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)

जी एस. पाण्डेय
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सहायक यांत्रिक अभियंता / गुणवत्ता
Assistant Mechanical Engineer / Quality
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Modern Coach Factory Raebareilly

जोगेंद्र सिंह
Dy. Chief Quality Manager
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MCF/RBL



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH		LWACCN	SHELL/COACH NO	17121/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	29.20 Cub mtr/min		OK
3.2	Return Air	65.61 Cub mtr/min		OK
3.3	Exhaust Air	6.16 Cub mtr/min		OK
3.4	Conditioned Air	184.37 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 Not done due to ambient temp. below 22 ⁰ 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 due to ambient temp. below 22 ⁰ C			OK


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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : AMIT Sr no of RMPU (NPP side): 2352-A Sr no of RMPU (PP side) : 2040-H Sr no of Microprocessor: AE-18.01.366	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 25-01-2018	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2017/07/034 Sr no.1 : 17060147 Sr no.2 : 17060360 Sr no.CPA : 17070024-KIND	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 : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02


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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	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.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
19.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 12/2017	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : SSK	As per LW 71002,Alt- F	01


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23.	Emergency battery charger Make : WAVES Sr no: WEBCE 172705 Make : BHASIN Sr no: 10174539	EDTS 163,Rev `c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : AUTOMATIC Elect Ltd SL.no : 03/17/T 509081/183	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : S.INTERNATIONAL SL.no : 180-12/2017	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC-3089-LHB-5057	As per rds0/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : ESCORTS Sr no : 170076-11932-0037	M/s : ESCORTS	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : SUPER REFRIGERATION	As per EDTS -139, Rev- E ,Sec II.	01

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

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आधुनिक डिब्बा कारखाना / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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