



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 02

DATE: 28.05.21

ROLLING STOCK CERTIFICATE(AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-2022 /59

RLY	ER	COACH NO	211716/C	DATE OF DISPATCH	16-Apr-21
Type	LWACCW	Shell No.	20B068	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L2T-T-216

1 Railway Board's Order No. : 2021/M (C)/142/2, dt-05.03.2021

2 Tare Weight & Carrying Capacity of Coach :

S.N	COACH TYPE	LWACCN	LWACCW	LWLRRM	LWCBAC	LFCWAC	LWSCZAC	LWFAC	LWFCZAC
i	Tare Weight	45.6	44.5	53.2	39	42.5	40.28		39
ii	Seating	72	52	NIL	15	10+28	78	24	56
iii	Sleeping	72	52	NIL	15	10+28	NIL	24	NIL
iv	Luggage	NIL	NIL	3.9	NIL	NIL	NIL	NIL	NIL

3 Special feature:

- Due to fitment of L3T roof in L2T shell, more space available in transverse side
- Extend linen room to accommodate the space NPP end (width 270 mm)
- Height (from floor level to ceiling) raised from 2250mm to 2510mm.
- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.
- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.
- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.
- Provision of sliding cum sleeping berth. M/S-VIBGYOR NDLS
- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

4 Smart feature: NIL

5 SHELL LEADING DIMENSIONS:

S.N	DESCRIPTION	DIMENSION (MM)
i	Maximum Length over body	23700
ii	Maximum Width over body	3240
iii	Maximum Height from Rail Level	LWACCN, LWACCW 4250 LWLRRM, LWCBAC, LFCWAC, LWSCZAC, LWFAC, LWFCZAC 4039
iv	CBC height/Buffer Height from Rail level	1105 +0/-10 NPP/PP 1102/1096

6 TRACEABILITY OF SHELL ITEMS:

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO
i	Under frame	Front PP END M/S-OMAX AUTO Part NPP END M/S-OMAX AUTO Complete MCF/RBL-V4U TECHIE	33 39 20B068
ii	Lav. side wall	MCF/RBL LAV.1 MCF/RBL LAV.3	LAV.2 LAV.4
iii	Side wall	LH SIDE MCF/RBL-CONT.V4U RH SIDE MCF/RBL-CONT.V4U	195 195
iv	End wall	PP END M/S-DTL NPP END M/S-SIPL	
v	Roof	M/S-PIL	125
vi	Centre Buffer Coupler	M/S-FRONTIER	NPP/PP 141P2/137P2
vii	Buffer	NIL	NPP/PP N/A

7 AIR BRAKE TEST REPORT:

S.N	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
i	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	7 Sec 3.0 kg/cm ² OK
ii	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
iii	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK
iv	Handbrake(Parking brake)for generator car	1.Apply hand brake 2.Release hand brake	1.Hand Bk. Indicator should be red 2. Hand Bk. indicator should be green	OK OK

8 FIRE TESTING:

S.N	DESCRIPTION	SPEC. VALUE	OBSERVED
i	Smoke detection	A-controller should display smoke in zone 1,2 B-strobe light & hooter should activate	OK
ii	Heat detection	A-controller should display smoke/heat in zone 1,2 B- strobe light & hooter should activate	OK

9 PAINTING DETAILS:

S.N	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
i	Paint	P.U	VIBGYOR	M/S-VIBGYOR WOW	75/96	10-Apr-21
ii	Insulation			Satisfactory		

10 COACH FURNISH DETAILS :

S.N	ACTIVITIES	FIRM	TURNKEY/WORK CONTRACT/SUPPLY&APPLY
i	Coach Furnishing	M/S-HFGW VADODARA	WORK CONTRACT
ii	Air Brake	M/S-HARE KRISHNA	SUPPLY & APPLY
iii	Bio toilet & flushing	M/S-LUCKY ENTERPRISES	WORK CONTRACT
iv	Fire detection	NIL	NIL

SSE/QC/MCF/RBL

वरिष्ठ अनुसंधान विभाग
गुणवत्ता विभाग
रेडिओ रोल रायबरेली (लालगंज)





Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-2022 /59

RLY	ER	COACH NO	211716/C	DATE OF DISPATCH	16-Apr-21
Type	LWACCW	Shell No.	20B068	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L2T-T-216

11 MODIFICATION (IF ANY) : NIL

12 DEVIATION (IF ANY) : NIL

13 ITEM FITTED ON THE COACH ON TRIAL : NIL

S.N	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE &
			Frequency	PERIOD OF TRIAL

14.A TRACEABILITY OF FURNISHING ITEMS:(common items for all coach)

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
i	Air Brake Module	M/S-KBI	6249.380952
ii	Distribution valve	M/S-KBI	2021B13078
iii	Pull box	M/S-KBI	
iv	FIBA	NIL	NIL
v	Foot Step	M/S-FEBRICON INDS KOLKATA	
vi	Decoupling arrangement	M/S-PULSAR INDS KOLKATA	
vii	Floor board	M/S-TWPL MUMBAI	
viii	PVC	M/S-REPOSIVE GZB	
ix	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
x	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
xi	Gangway bridge mounting (PPE)	M/s- MMW KXH	
xii	Gangway bridge mounting (NPPE)	M/s- MMW KXH	
xiii	Body Side Window	M/S-AXSYS SOLUTION	
xiv	Emergency Window	M/S-AXSYS SOLUTION	
xv	Lavatory/hopper Window	M/S-BIKRON GZB	
xvi	Roof Ceiling	M/S-MSL MOHALI	
xvii	Door way /gang way ceiling	M/S-P.D.STEEL	
xviii	Supply Air Duct	M/S-GANDHI SAFE & ALLIED	
xix	Partition panel	M/S-PUNJAB LAMINATES	
xx	Partition pillar	M/S-NAGINA ENGG KXH	
xxi	Side Wall panel	M/S-HFGW VADODARA	
xxii	AC Trough	M/S-TATA STEEL(PP)MSL MOHALI(NPP)	
xxiii	Body Side Doors	M/s-JVR LDH(2,4)+JBM FARIDABAD(1,3)	
xxiv	Compartment Door (PPE)	M/s-POOJA SALES	
xxv	Compartment Door (NPPE)	M/s-POOJA SALES	
xxvi	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
xxvii	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
xxviii	RMPU	M/S-INTEC DHERADHUN	
xxix	Bio Tank	M/s-JSL LIFE -02 NOS+CEMCON-02 NOS	
xxx	Pressurized flushing (ele. Pneu.)	M/S-SPAC	
xxxi	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
xxxii	Under Slung Water Tank (2X685L)	M/S-OASIS	
xxxiii	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG.MOHALI	
xxxiv	Health Faucet	M/S-HFGW VADODARA	
xxxv	Lotah Filler Tap	M/S-HFGW VADODARA	
xxxvi	Bib cock	M/S-JAQUAR ALWAR.	
xxxvii	Lavatory Modules	M/S-HFGW VADODARA	
xxxviii	Lavatory Doors	M/S-HFGW VADODARA	
xxxix	Fire Extinguisher	M/S-SAFEX FIRE	33763,33702
xxxx	Seat & Berth	M/S-VIBGYOR NDLS	
xxxxi	Snack Table	M/S-DJUM NOIDA	
xxxxii	Light Luggage Rack	M/S-RAIL TECH KXH	
xxxxiii	Venturi grill	M/S-HFGW VADODARA	
xxxxiv	Auto janitor	M/S-HFGW VADODARA	
xxxxv	Automatic smoke & heat Detection with alarm System	NIL	

14.B TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)-NIL

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

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RLY	E	R	-	Coach No.	2	1	1	7	1	6	/	C	DATE OF DISPATCH	1	6	0	4	2	0	2	1
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DISPATCH	Sr.DME/C&W/KOAA	Type	L	W	A	C	C	W	Shell No.-	2	0	B	0	6	8	FUR NO	12T-216
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15. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202148				202147			
Bogie Type	FIAT				FIAT			
Frame no.	VS- 2253				VS-2248			
Bolster no.	APEX-182				APEX-169			
Axle No	20 B - 0174 RWF		20 B - 0471 RWF		20 B - 5293 RWF		20B - 5511 RWF	
Wheel Dia	917.15	917.105	917.439	917.469	917.459	917.451	917.388	917.366
Wheel Disc No	TZ- 07-18 42434-8RL8	TZ- 07-18 42365-8RL8	TZ- 07-18 42741-8RM3	TZ- 06-19 58475-9QK7	TZ 05-18 22674-8PQ6	TZ 07-18 37961-8RN8	TZ 02-19 29179-9ML3	TZ 05-18 22673-8PQ3
R.B. Nos.	07-20 415527	07-20 416502	07-20 416637	07-20 416677	06-20 413248	07-20 416052	06-20 412445	06-20 415019
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

16. 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.	CMAFJ11-20 9514-94	CMAFJ01-20 9513-20	CMAFJ11-20 9514-103	CMAFJ01-20 9513-24	CMAFJ11-20 9514-95	CMAFJ01-20 9513-18	CMAFJ011-20 9514-85	CMAFJ01-20 9513-23
Compressed Ht. at Tested Load	510	468	510	467	510	468	510	466
Alignment deviation (mm)	15	10	15	10	15	1	15	10

17. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	306076,336410	334634,336116
2.	Primary outer Spring	CMFSK	10-20 F03-028-(859,755,657,440)	10-20 F03-028-(393,890,484,445)
3.	Primary Inner Spring	CMSTL	02-19 F02-S45-02A-(7320,6918,6918,6850)-	02-19 F02-S45-02A-(7080,7075,6083,6069)-
4.	Primary Damper	GABRIEL	02-20 (15505,18491,18489,18497)	02-20 (18508,18506,18488,18510)
5.	Secondary Damper	KONI	04-19 (06816,06519)	04-19 (5811,5760)
6.	Lateral Damper	KONI	03-19 01004	03-19 00363
7.	Brake Cylinder	KBI	C-(4107,2772,2774,4108)K29	C-(4106,2771,2770,4105)K29
8.	Brake Caliper	KBI	C(4052,0478,0475,0406)-29	C(0403,0476,0477,0404)-29
9.	Brake Disc	FAV	08-20(2047,2048,2116,2115)D133561-300	08-20(1385,2085,2084,2083)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	GMT/AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	RF		
19.	Roll Link make	RF/GMT		
20.	Fork make	RF		
21.	Control Arm Upper	RVE	301219-1,261019-3,090219-1,161019-3	D8044,N5888,D8047,D6024
22.	Control Arm Lower	RVE	151019-2,141019-2,141019-2,131019-4	N5290,D5220,D5275,D8025
23.	Phonic Wheel	FAV/KBI	FT/KEP-600	K 12-19

Signature of SSE/Bogie/QC	SME/AME/QC/MCF/RBL	Dy.QCM/MCF/RBL
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सहायक यंत्रिक इंजीनियर
Asst. Mechanical Engineer
आधुनिक रेल डिब्बा कारखाना, रायबरेली
MCF, RBL

Modern Coach Factory, Raebareilly
MCF/RBL



Vibgyor Paints & Chemicals Pondicherry

Office : Sri Balaji Apartments, 87/47, Harrington Road,
Shenoy Nagar, Chennai - 600 030.
Web : www.vibgyorpaintspondicherry.com

ISO : 9001 : 2015
ISO : 14001 : 2015
Certified Company

WARRANTY CERTIFICATE

To,

DY.CME/FUR/PAINT
MODERN COACH FACTORY
RAEBARELI, LALGANJ- 229120

Date:- 12/04/2021

SUBJECT: -PERFORMANCE WARRANTY CERTIFICATE
REF: PO NO: 31061800101633 dated 01.10.2019

NAME OF WORK: SUPPLY AND APPLY OF PU BASED WET ON WET APPLICABLE EXTERIOR PAINTING SYSTEM FOR LHB COACHES AS PER SCOPE OF WORK AND MMDTS-18034 REV-02 WITH AMENDMENT NO MP/RBL/BB DT 28/05/2019 (EPOXY ELASTIFIED PAINT INSIDE THE COACH NOT TO BE CARRIED OUT PAINTING CYCLE TIME WILL BE 30 HRS AS MENTION IN MMDTS-18034 REV-02)

Dear Sir,

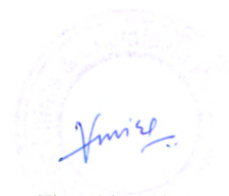
With reference to above, we do here by confirm the warranty for six years from the date of application of the delivered below mention coaches vide your above referred purchase order after application & date inspection at your end.

SL.NO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION
137	LWACCW 2013068	L2T(T) 216			03/03/2021 10/04/2021

The warranty is applicable from date of despatch against the below mention defects as per RDSC Specification no. MMDTS 18034 REV-02

Gloss should be above 70 at 60 degree during the initial period and entire life of 6 years

Decolourization of paint film.
Cracking of paint film
Peeling of paint film
Blistering of the paint film



Thanking You

For Vibgyor paints & chemicals Pondicherry



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 2T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 2T COACH.

TYPE COACH		LWACCW		SHELL/COACH NO		211716/C	
RAILWAY		ER	ELECT. FIT DATE		13-04-2021	MCF FUR. NO.	2T-T-216
Sr. no.	Description of tests						Remarks
1.0	REFERENCE SPECIFICATION : L 446						
1.1	AIR CONDITIONING TEST : ELPS/TP/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			63.02 Cub mtr/min			OK
3.3	Exhaust Air			7.15 Cub mtr/min			OK
3.4	Conditioned Air			181.32 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						OK
	PP Side :23.1°C NPP Side :21.1°C						
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.						----

Senior Section Engineer
Quality control / Electrical
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ELECTRICAL TEST CERTIFICATE FOR LHB EOG 2T COACH.		
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 BERTH READING LIGHTS	OK
10.0	WORKING OF COMPARTMENT LIGHTS	OK
11.0	WORKING OF MOBILE CHARGING SOCKETS	OK
12.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	OK
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	WORKING OF COMPOSITE PANTRY(ONLY FOR RAJDHANI COACH)	N/A
19.0	SAFETY :	----
19.1	OHP :	OK
19.1	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
19.2	LP/HP GAUGE	OK
19.3	HYGROSTAT	OK
19.4	CONTROL CIRCUIT	OK
19.5	POWER CIRCUIT	OK
20.0	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 : INTEC Sr no of RMPU 1(NPP side) 20G 1870 Sr no of RMPU 2(PP side): 20G 1874 Sr no of Microprocessor. : 19113022	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-21-01-0254	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0). MEDTS-0004,Rev.-1 for Smart SBC	01 no.
03.	Pump equipment with PLC controller & pump box Make: HIND PA Sr.no: 20/10/395 Sr no.1: 20/10/829 Sr no.2 : 20/10/830 Sr.no.CPA/Make: 20/10/611-HIND	As per spec EDTS 186,Rev-a, Am- 2. As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	01 Set
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02 no.
05.	Provision of Passenger area LED Light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09 no.
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09 no.
08.	Mounting of Cabin/Corridor Light with Night light	As per drg no. LW 76091.	OK
09.	Provision & mounting of Doorway/Gangway light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	07 no.
10.	Provision & Mounting of PACIL Assly. Make: ELECTRO WAVES	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02 no.
11.	Provision & Mounting of WC light. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	02 no.
12.	Provision & Mounting of Lavatory Light. Make: IMT	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	04 no.
13.	Provision of Emergency Lighting system Make: INTEG	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	04 no.

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ROLLING STOCK CERTIFICATE OF LHB EOG 2T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
14.	Provision of razor socket for WC for 110/240V. Make: SSK	EDML047.ITEM-4	04 no.
15.	PA system for LHB coaches Make: AHUJA	EDTS 173,Rev- B,Cor-1	01 Set
16.	Provision of terminal strip complete	EDML 034,Rev-C,DRG NO.LW76054	01 Set
17.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	OK
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate & 2 no. ON_ OFF switches 6A,250 V AC and 1 no. 5-pin socket 6A,250V AC with 1.0 Amp glass fuse. Make : SALZER	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-4 ,Drg. No. LW74202	09 no.
19.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass fuse. Make : SALZER	As per spec EDML-064,REV- B,Am-1 alt 'c' Item 16,Drg. No. LW74202	35 no.
20.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass. Make : SALZER	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-5, Drg. No. LW74202	09 no.
21.	Provision & Mounting of reading light for upper berth Make : AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 & Drg no LW 76094	26 no.
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no. LW 76095	09 no.
23.	Provision & Mounting of reading light for berth transverse (LHS) Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no. LW 76096	08 no.
24.	Provision & Mounting of reading light for berth Longitudinal. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76096	09 no.
25.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make: 1.(NPP): PRIME ELECT. 2.(PP): PRIME ELECT.	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.- 0)-2013 with annexure-A, B.	01 set
26.	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 : 03/21	EDTS 129,Rev nil	01 set

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 01
		DATE: 29.06.2020

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ROLLING STOCK CERTIFICATE OF LHB EOG 2T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
27.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	OK
28.	Provision of cable binder.	As per Drg. No. cc76129 ,Item 2,4.	OK
29.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01 no.
30.	Battery fuse box +ve Make : NEC	LW 71001,Alt-H	01 no.
31.	Battery fuse box -ve Make : INDORAIL	LW 71002,Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: WAVES Sr. no.: W4K5G 201869	As per spec no. RDSO/PE/SPEC/AC/0183-(REV.-0) . Or RDSO/PE/SPEC/AC/0183-2015(REV.-1)-For Under slung RBC cum EBC.	01 no.
33.	Emergency battery charger Make : N/A Sr.no.: N/A	EDTS163,REV-C,COR-2&3	N/A
34.	Provision of 5 KVA TFR Make: VIMAL SL.no.: VTC 3089 LHB-1628	As Per EDTS-366,REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020097330	As per EDML-130 Rev-1,Corr-1	01 no.
36.	60KVA transformer Make : WAVES Sr no : W60KB 21357	As per spec no.RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : INDORAIL	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make : KNORR Sr. no : 0120305772	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 set
40.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: MV	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	02
41.	PANTRY EQUIPMENTS(ONLY FOR RAJDHANI COACH) : Hot Case, Bottle cooler cum deep freezer Make : N/A	As per spec no EDTS 139, Rev-E .Sec II.	N/A

 वरिष्ठ अनुभाग अभियन्ता SSE/EL QC गुणवत्ता नियंत्रण आपरेटिंग / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 10/5/21 आपरेटिंग / लालगंज / रायबरेली आपरेटिंग / लालगंज / रायबरेली A.W.M./Elect/MCF/RBL
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