



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 /11

RLY	CR	COACH NO	211312/C	DATE OF DISPATCH	1-Apr-21
Type	LWACCW	Shell No.	20B062	DISPATCH TO	Sr.DME/C&W/WB/BB
1	Railway Board's Order No. : 2020/M (C)/142/2, dt-24.06.2020				
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:

i	Due to fitment of L3T roof in L2T shell, more space available in transverse side								
ii	Extend linen room to accommodate the space NPP end (width 270 mm)								
iii	Height (from floor level to ceiling) raised from 2250mm to 2510mm.								
iiiA	Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.								
iiiB	Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.								
iiiC	Gap extend between transverse side floor level to lower berth from 420mm to 465mm.								
iv	Provision of sliding cum sleeping berth. M/S-VIBGYOR NDLS								
v	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 1105/1099

6 TRACEABILITY OF SHELL ITEMS:

S.N	ITEM	MAKE/SUPPLIER	SERIAL NO
i	Under frame	Front PP END M/S-JBM Part NPP END M/S-MTF Complete MCF/RBL-V4U TECHIE	16 524 20B062
ii	Lav. side wall	M/S-RAIL TECH KXH M/S-RAIL TECH KXH	LAV.1 LAV.2 LAV.3 LAV.4
iii	Side wall	LH SIDE MCF/RBL-CONT.V4U RH SIDE MCF/RBL-CONT.V4U	170 170
iv	End wall	PP END M/S-RAIL TECH KXH NPP END M/S-RAIL TECH KXH	
v	Roof	M/S-HANSPAL KXH	1
vi	Centre Buffer Coupler	M/S-ESCORTS	NPP/PP 5563,5909
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	GSI	M/S-GSI (WOW)	100/98	10-Feb-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	MCF/RBL	SUPPLY & APPLY
iii	Bio toilet & flushing	M/S-LUCKY ENTERPRISES	WORK CONTRACT
iv	Fire detection	NIL	NIL

(Signature)
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगज)





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 02

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ROLLING STOCK CERTIFICATE(AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-2022 /11

RLY	CR	COACH NO	211312/C	DATE OF DISPATCH	1-Apr-21
Type	LWACCW	Shell No.	20B062	DISPATCH TO	Sr.DME/C&W/WB/BB
				FUR.NO.	L2T-T-201

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-FAIVELEY	B21021B
ii	Distribution valve	M/S-FAIVELEY	B215526B
iii	Pull box	M/S-FAIVELEY	
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-ELASTOMER MUMBAI	
x	UIC Vestibule (NPPE)	M/S-ELASTOMER MUMBAI	
xi	Gangway bridge mounting (PPE)	M/s-HARE KRISHNA KXH	
xii	Gangway bridge mounting (NPPE)	M/s-HARE KRISHNA KXH	
xiii	Body Side Window	M/S-BIKRON GZB	
xiv	Emergency Window	M/S-AXSYS SOLUTION	
xv	Lavatory/hopper Window	M/S-AIKON SALON	
xvi	Roof Ceiling	M/S-MSL MOHALI	
xvii	Door way /gang way ceiling	M/S-J R INDS	
xviii	Supply Air Duct	M/s-SAHAI SEATING KXH	
xix	Partition panel	M/S-PUNJAB LAMINATES	
xx	Partition pillar	M/S-J R INDS	
xxi	Side Wall panel	M/S-HFGW VADODARA	
xxii	AC Trough	M/S-MSL MOHALI	
xxiii	Body Side Doors	M/s-MOURTUFF LTD(1)+JVR LDH(2,3,4)	
xxiv	Compartment Door (PPE)	M/s-HANSPAL KXH	
xxv	Compartment Door (NPPE)	M/s-PUJA LTD	
xxvi	Vestibule Door(PPE)	M/s-KALSI LDH	
xxvii	Vestibule Door(NPPE)	M/s-KALSI LDH	
xxviii	RMPU	M/S-INTEC DEHRADHUN	
xxix	Bio Tank	M/s-FLASH FORGE-02 NOS+JSL LIFE -02 NOS	
xxx	Pressurized flushing (ele. Pneu.)	M/S-AIR FLOW	
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-SHIVALIK FAST 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	33726/33754
xxxx	Seat & Berth	M/S-VIBGYOR NDLS	
xxxxi	Snack Table	M/S-DLJM 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

मंडीका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE (AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-22/11

RLY	-	C	R	Coach No.	2	1	1	3	1	2	/	C	-	DATE OF DISPATCH	0	1	0	4	2	0	2	1
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DISPATCH	Sr.DME/C&W/WB/BB	Type	L	W	A	C	C	W	Shell No.-	2	0	B	0	6	2	FUR.NO	L2T-T-201
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202735				202736			
Bogie Type	FIAT				FIAT			
Frame no.	V. S. - 2126				V. S. - 2119			
Bolster no.	MCF/RBL - 3036				MCF/RBL - 3038			
Axle No	21 C - 3609 RWF		21 C - 3409 RWF		20 C - 3398 RWF		21 C - 3541 RWF	
Wheel Dia	917.482	917.43	917.366	917.38	917.549	917.634	917.479	917.629
Wheel Disc No	TZ- 09-20 32452-0SD0	TZ- 07-20 45549-ORD8	TZ 09-20 30597-0PM0	TZ- 09-20 27117-0TC1	TZ 09-20 25709-0SE0	TZ- 09-20 27897-0SD6	TZ- 09-20 27894-0SD6	TZ- 09-20 630735-0SF0
R.B. Nos.	06-20 412845	06-20 410714	06-20 411653	06-20 412949	06-20 412801	06-20 410840	06-20 411927	06-20 412776
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. 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.	CMFSK-12-19-F18-150-177	CMFSK-11-12-9513-475-566	CMFSK-07-20-F18-203-209	CMFSK-11-12-9513-475-490	CMFSK-03-18-8335-80-512	CMFSK-01-19-9513-499-103	CMFSK-03-18-8335-86	CMFSK-01-19-9513-360
Compressed Ht. at Tested Load	510	468	510	467	512	465	512	468
Alignment deviation (mm)	8	10	8	9	10	10	11	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	293902,294691	301675,301476
2.	Primary Outer Spring	CMFSK	01-20-F03-028-(816,773,391,727)	10-20-F03-028-(74,619,535,720)
3.	Primary Inner Spring	CMAFI	06-20-7412-(211,222,140,225)	06-20-7412-(215,221,103,224)
4.	Primary Damper	IAI	01-20-(300451,299359,301346,298611)	01-20-(299342,299768,300511,298635)
5.	Secondary Damper	KNOOR	12-18 (13774,13724)	12-18 (19519,13800)
6.	Lateral Damper	GABRIEL	12-19 1913	12-19 19567
7.	Brake Cylinder	FAV	G20-025, F20-(440,174,169)	E20-164, F20-(017,441,026)
8.	Brake Caliper	FAV	H20-(111,109,249,252)-B	H20-(251,250,110,112)-B
9.	Brake Disc	HXDA	09-18(48200978,48200980,40200783,49201069)	09-18-(48200960,48200959,48200975,48201008)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	BONY		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	BONY		
18.	Anti roll bar Make	SF		
19.	Roll Link make	RF+GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	KUMAR	D-(6048,6050,4645,6046)	D-(6448,5612), N-(3010,3291)
22.	Control Arm Lower	KUMAR	D-(1675,5215,1635), N-(3640)	D-(3468,5520), N-(2448,1656)
23.	Phonic Wheel	FAV	FT/KEP/600	FT/KEP/600

Signature of SSE/Bogie/QC	SME/AME/QC/MCF/RBL सहायक यांत्रिक इंजीनियर Asst. Mechanical Engineer आ. रे. डि. का. रायबरेली MCF, RBL	Dy. COM/MCF/RBL Dy. COM/MCF/RBL Modern C.
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APPROVED BY

N.S.I.C.
R.D.S.O.ISO 9001-2015
ISO 14001-2015

G. S. INDUSTRIES

D-146, FOCAL POINT EXTENSION, JALANDHAR-144

PHONE : (O) 0181-5081-

(M) 99882-65025, 99884-55

Website : www.gspaints.c

e-mail : info@gspaints.c

WARRANTY CERTIFICATE

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

Date - 18/3/2021

Sub:- PERFORMANCE WARRANTY CERTIFICATE

PO NO. 31061800101632 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/B8 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 of the date of application of delivered below mentioned coaches vide your above referred purchase order after application & due inspection at your end.

SR.	SHELL NO.	FURNISHING NO.	COACH NO.	Railway NO.	DATE OF COMPLETION
1. 263	LW ACCH 20 B062	L2T(T) - 201			09/02/2021 10/02/2021

The warranty is applicable from date of dispatch against the below mention defects as per MCF specification no. MMDTS 18034 REV-2

- Gloss level value of applied paint-initial 95 unit(on the date of painting) and minimum 90%,85%,75% & 70% of initial gloss after 6 months, one years, four years and six years respectively from the date of application.
- Decolonization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.
- The coach is warranted 6years for gloss retention, premature failure in colour retention

• P.U. PAINTS • EPOXY PAINTS • FAST DRYING PAINTS • CASTING SEALERS • METALLIC PAINTS • HAMMER TONE PAINTS • SYNTHETIC ENAMELS
• FIRE RETARDANT PAINTS • CEMENT PRIMERS • ALUMINIUM PAINTS • RED OXIDE ZINC CHROMATE • THINNERS FOR PAINTS • ALKYD RESIN FOR PAINTS



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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		
RAILWAY		CR		20-03-2021		
		ELECT. FIT DATE		MCF FUR. NO.		
				2T-T-201		
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			29.72 Cub mtr/min		OK
3.2	Return Air			66.45 Cub mtr/min		OK
3.3	Exhaust Air			5.69 Cub mtr/min		OK
3.4	Conditioned Air			169.17 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 : 20.4°C NPP Side : 20.3°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.					----

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 2T COACH.

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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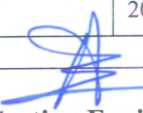
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ROLLING STOCK CERTIFICATE OF LHB EOG 2T COACH.

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) 20H 1976 Sr no of RMPU 2(PP side): 20H 1939 Sr no of Microprocessor. : 191129646-SIDWAL	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-20-10-0183	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: 20/03/103 Sr no.1: 20/03/205 Sr no.2 : 20/03/206 Sr.no.CPA/Make: 21020097-KIND	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: DR AUTO	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: AGASTYA	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: RT VISION	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: RT VISION	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.


 Senior Section Engineer
 Quality control / Electrical
 Modern Coach Factory Raebareli





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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: DEVINTEC	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 : 11/19	EDTS 129,Rev nil	01 set

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना,
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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 : AUTO	LW 71001,Alt-H	01 no.
31.	Battery fuse box -ve Make : AECO	LW 71002,Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: PI Sr. no.: 19120290	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-1595	As Per EDTS-366,REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020108109	As per EDML-130 Rev-1,Corr-1	01 no.
36.	60KVA transformer Make : VIMAL Sr no : VTC(R)3089LHB-3872	As per spec no.RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr. no : 13067	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 इलेक्ट्रिकल अभियन्ता S.S.E./EL/QC गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL
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