



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 /85

RLY	ER	COACH NO	211721/C	DATE OF DISPATCH				4-May-21	
Type	LWACCN	Shell No.	20C117	DISPATCH TO	Sr.DME/C&W/KOAA			FUR.NO.	L3T-1539
1	Railway Board's Order No.			:2021 (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:								
i	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								
ii	Venturi arrangement in lavatory								
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		LWLRRM,LWCBAC,LFCWAC,LWSCZAC,LWFAC,LWFCZAC			
				4250		4039			
iv	CBC height/Buffer Height from Rail level			1105 +0/-10			NPP/PP		1105/1098
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 /AIRCON		20C117			
ii	Lav. side wall			M/S-RAIL TECH KXH		LAV.1	-----	LAV.2	-----
				M/S-RAIL TECH KXH		LAV.3	-----	LAV.4	-----
iii	Side wall		LH SIDE	M/S-ECBT		116			
			RH SIDE	M/S-ECBT		116			
iv	End wall		PP END	M/S-SIPL PALWAL		-----			
			NPP END	M/S-SIPL PALWAL		-----			
v	Roof			M/S-ECBT		163			
vi	Centre Buffer Coupler			M/S-FRONTIER		NPP/PP		90P1/26P1	
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/cm².			6 – 10 sec.		08 Sec	
			Max. pressure in BC			3.0 ±0.15 kg/cm².		3.0 kg/cm²	
			All Brake are applied			OK		OK	
ii	Insensitivity		Exhaust BP @ 0.3 kg/cm²/min.			No brake application		OK	
iii	Sensitivity		Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec.			Brake must apply		OK	
iv	Handbrake(Parking brake)for generator car		1.Apply hand brake			1.Hand Bk. Indicator should be red		OK	
			2.Release hand brake			2. Hand Bk. indicator should be green		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 SIDE WALL/END WALL		DATE OF COMPLETION	
i	Paint	P.U	GSI	M/S-GSI		98/96		7-Oct-20	
ii	Insulation-	Satisfactory		ANTIGRAFFITE COATING- YES		WET ON WET- YES			
10	COACH FURNISH DETAILS :								
S.N	ACTIVITIES		FIRM		TURNKEY/WORK CONTRACT/SUPPLY&APPLY				
i	Coach Furnishing		M/S-H.F.GLASS VADODARA		WORK CONTRACT				
ii	Air Brake		M/S-TRIDEV		WORK CONTRACT				
iii	Bio toilet & flushing		M/S-VEDANSH ENT.		SUPPLY&APPLY				
iv	Fire detection		NIL		NIL				

SSE/QC/MCF/RBL

24/8/2021

वरिष्ठ अनु अभियंता

गुणवत्ता विभाग

रेडिफाई, रायबरेली (लालगंज)



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Type	LWACCN	Shell No.	20C117	DISPATCH TO	Sr.DME/C&W/KOAA
				FUR.NO.	L3T-1539

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 Frequency	REFERENCE & PERIOD OF TRIAL
i				

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	6227-08/21
ii	Distribution valve	M/S-KBI	2021B13125
iii	Pull box	M/S-KBI	
iv	FIBA	NIL	NIL
v	Foot Step	M/S-HITECH INFRAVENTURE RBL	
vi	Decoupling arrangement	M/S-PULSAR RUBBER KOLKATA	
vii	Floor board	M/S-TWPL MUMBAI	
viii	PVC	M/S-RESPONSIVE MUMBAI	
ix	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
x	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
xi	Gangway bridge mounting (PPE)	M/S-MAHAVEER METAL WORK KXH	
xii	Gangway bridge mounting (NPPE)	M/S-MAHAVEER METAL WORK KXH	
xiii	Body Side Window	M/S-AXSYS SOLUTION SIRMOUR	
xiv	Emergency Window	M/S-AXSYS SOLUTION SIRMOUR	
xv	Lavatory/hopper Window	M/S-BIRCON ENG GZB	
xvi	Roof Ceiling	M/S-MOBILITY SOLUTION MOHALI	
xvii	Door way /gang way ceiling	M/S-P.D.STEEL	
xviii	Supply Air Duct	M/S-HANSPAL KXH	
xix	Partition panel	M/S-PUNJAB LAMINATED H.P	
xx	Partition pillar	M/S-J.R.INDS.JUC	
xxi	Side Wall panel	M/S-H.F.GLASS VADODARA	
xxii	AC Trough	M/S-TATA STEEL KOLKATA	
xxiii	Body Side Doors	M/S-H.F.GLASS VADODARA	
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 CORPORTION DEHRADUN	
xxix	Bio Tank	M/S-RAILFAB-02 nos+JSL-02 nos	
xxx	Pressurized flushing (ele. Pneu.)	M/S-SPAC	
xxxI	Auxiliary Water Tank	M/S-SHIVALIK MOHALI	
xxxii	Under Slung Water Tank (2X685L)	M/S-OASIS	
xxxiii	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG.MOHALI	
xxxiv	Health Faucet	M/S-H.F.GLASS VADODARA	
xxxv	Lotah Filler Tap	M/S-H.F.GLASS VADODARA	
xxxvi	Bib cock	M/S-JAQUAR ALWAR	
xxxvii	Lavatory Modules	M/S-H.F.GLASS VADODARA	
xxxviii	Lavatory Doors	M/S-H.F.GLASS VADODARA	
xxxix	Fire Extinguisher	M/S-SAFEX FIRE	33760/33671
xxxx	Seat & Berth	M/S-ANANYA RCC LLJ	
xxxxi	Snack Table	M/S-DJLM NOIDA	
xxxxiI	Light Luggage Rack	M/S-TECHNO INDS ALD	
xxxxiII	Venturi grill	M/S-H.F.GLASS VADODARA	
xxxxiIV	Auto janitor	M/S-H.F.GLASS VADODARA	
xxxxiV	Automatic smoke & heat Detection with alarm System	NIL	

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

i	Vacuum toilet system	NA
ii	Odour control system	N/A
iii	CCTV	N/A

SSE/QC/MCF/RBL

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गुणवत्ता विभाग

रेलवे कारखाना, रायबरेली (उत्तर प्रदेश)



MODERN COACH FACTORY, RAEBARELI

DOC NO.: MCF/RBL/QMF 8002

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ROLLING STOCK CERTIFICATE (AC COACH)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-22/-85

RLY	E	R	-	Coach No.	2	1	1	7	2	1	/	C	-	DATE OF DISPATCH	0	4	0	5	2	0	2	1
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH Sr.DME/C&W/KOAA

Type

L W A C C N

Shell No.

2 0 C 1 1 7 FUR .NO

L3T-1539

15. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	203030				203029			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX- ENGG-263				V.S-2098			
Bolster no.	AMIT ENGG-202				AMIT ENGG-204			
Axle No	21 C - 6017 RWF		21C - 5727 RWF		21 D - 3573 RWF		21 D - 3635 RWF	
Wheel Dia	917.37	917.29	917.42	917.35	917.27	917.73	917.42	917.39
Wheel Disc No	TZ-04-19 39835-9OH3	TZ-04-18 15956-8MT7	TZ-06-17 20705-7QK1	TZ-06-17 20706-7QK1	TZ-08-18 95567-8RP6	TZ-07-18 42686-8RQ8	TZ-07-18 42681-8RQ8	TZ-04-18 13519-8MV8
R.B. Nos.	09-20 300331	09-20 300813	09-20 300551	09-20 301465	09-20 300873	10-20 432972	09-20 300311	09-20 301003
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.	CMFSK 02-20 F16-171-210	CMFSK 01-19 9513-499-4561	CMFSK 02-20 F16-171-561	CMFSK 01-19 9513-099-545	CMFSK 02-20 F16-171-481	CMFSK 01-19 9513-099-529	CMFSK 02-20 F16-171-413	CMFSK 01-19 9513-099-099
Compressed Ht. at Tested Load	510.5	463.5	510.5	465	513	467	413.5	464
Alignment deviation (mm)	7	7	7	7	8	14	8	17

17. TRACEABILITY OF BOGIE ITEMS:-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	338493.338470	337676,337978
2.	Primary outer Spring	CMFSK	10-20 F03-028-(527,616,872,913)	10-20 F03-028-(886,282,603,350)
3.	Primary Inner Spring	CMFSK	10-20 F-04-31-(252,650,227,273)	10-20 F04-031-(763,769,667,762)
4.	Primary Damper	IAI	02-20 (309271,309267,309291,309193)	02-20 (309260,309172,309183,309282)
5.	Secondary Damper	KONI	04-19 (06208,00497)	04-19 (195958,4281)
6.	Lateral Damper	KONI	03-19 00497	03-19 00495
7.	Brake Cylinder	KBI	D-(2271,0259,0585,2114)K-29	D-(2301,0240,0941,2303)K-29
8.	Brake Caliper	KBI	A(6903,6901,6932,6816)-29	A(7233,7029,7028,7214)-29
9.	Brake Disc	KBI	24241008 0049-46-20,24241008 0048-46-20 24253225 0063-11-21,24253224 0076-11-21	24241009 0024-46-20,24241008 0038-46-20 20,24241008 0051-46-20,24241008 0052-46-20
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	ARYAN+GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BONY+GMT		
15.	Ball joint traction centre	ARYAN+PRAG		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	ARYAN		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	EMSON+BONY		
20.	Fork make	RNG		
21.	Control Arm Upper	RV	250120-2,150120-3,2150120-3,150120-3	150120-3,150120-3,250120-3,150120-3
22.	Control Arm Lower	RV	140120-1,150120-3,150120-3,060120-2	140120-1,140120-1,160120-2,150120-3
23.	Phonic Wheel	FAVVELIY	FT/KEP-58	FT/KEP-58

Signature of SSE/Bogie/QC

SME/AME/QC/MCF/RBL

Dy.CQM/MCF/RBL

सहायक यंत्रिक इंजीनियर
Asst. Mechanical Engineer
आ. र. डि. का. रायबरेली
MCF, RBL

उप मुख्य गुणवत्ता प्रबंधक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना रायबरेली
Modern Coach Factory, Raebareli



GSTIN : 03ACBPK3400D1ZM
Excise Regn. No. ACBPK3400DXM001

G. S. INDUSTRIES

APPROVED BY

N.S.I.C.

R.D.S.O.

ISO 9001-2015

ISO 14001-2015

D-146, FOCAL POINT EXTENSION, JALANDHAR-144004

PHONE : (O) 0181-5081474

(M) 99882-65025, 99884-55459

Website : www.gspaints.com

e-mail : info@gspaints.com

WARRANTY CERTIFICATE

Date 12/10/2020

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

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.	LWACEN 244 20C117	L3T-1539	211721	ER	05/10/2020 07/10/2020

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 (colour fading) or thatches/peel-off and blistering etc.,

Thanking you,

(Signature)



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.					
TYPE COACH		LWACCN		SHELL/COACH NO	
RAILWAY		ER		211721/C	
		ELECT. FIT DATE		29-04-2021	
				MCF FUR. NO.	
				3T-1539	
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		29.31 Cub mtr/min		OK
3.2	Return Air		61.79 Cub mtr/min		OK
3.3	Exhaust Air		7.15 Cub mtr/min		OK
3.4	Conditioned Air		163.45 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 : 22.0 °C NPP Side : 21.3 °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 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T 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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ROLLING STOCK CERTIFICATE OF LHB EOG 3T 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) : 20E 1818 Sr no of RMPU 2(PP side): 20E 1772 Sr no of Microprocessor. : 19113018-SIDWAL	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-20-10-0228	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: 20/10/344 Sr no.1: 20/10/727 Sr no.2 : 20/10/728 Sr.no.CPA: 20/10/439-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: DR AUTO	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: ELECTROWAVES	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: AGASTYA	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.
14.	Provision of razor socket for WC for 110/240V Make: SSK	. EDML047,ITEM-4	04 no.

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per
			Coach
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	54 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 : RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F2 & Drg no LW 76094	27 no.
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F3 & Drg no. LW 76095	18 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	18 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(R ev.-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 : AMARA RAJA Lug date : 6/20	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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REV NO: 01

DATE: 29.06.2020

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T 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: HITACHI Sr. no.: 18121890	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 : BHASIN Sr.no.: 0120709	EDTS163, REV-C, COR-2&3	01 no
34.	Provision of 5 KVA TFR Make : VIMAL Sr no : VTC 3089 LHB 1685	As Per EDTS-366, REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020108051	As per EDML-130 Rev-1, Corr-1	01 no.
36.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-3860	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make : LIGHT ENGG.	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 : 0120295486	As per MDTs 077, Rev.-2 M/s "FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	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

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आरंभिक/लालगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL आरंभिक/लालगंज/रायबरेली A.W.M./Electrical/MCF/RBL
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