



**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 /271(Tejas)

RLY	ECR	COACH NO	211868/C	DATE OF DISPATCH	25-Jun-21
Type	LWACCN	Shell No.	21N001	DISPATCH TO	Sr.DME/DNR/RNCC
				FUR.NO.	L3T-TEJ-92

1 Railway Board's Order No. : 2020/M (C)/142/2, Dt- dt-18.02.2020

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 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 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-KUTTER EQUIPMENT Part NPP END M/S-KUTTER EQUIPMENT Complete MCF/RBL-AIRCON	----- ----- 21N001
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-V4U LKO RH SIDE MCF/RBL-V4U LKO	240 240
iv	End wall	PP END M/S-ECBT NPP END M/S-OMAX	----- -----
v	Roof	M/S-ECBT	1
vi	Centre Buffer Coupler	M/S-ESCORTS	NPP/PP 7697/7683
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 <sup>2</sup> . Max. pressure in BC. All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	7 Sec 3.0 kg/cm <sup>2</sup> OK
ii	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
iii	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	ADVANCE	M/S-ADVANCE	76/92	29-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	TURNKEY
ii	Air Brake	M/S-SR ENT.	WORK CONTRACT
iii	Bio toilet & flushing	M/S-HFGW VADODARA	TURNKEY
iv	Fire detection	M/S-SANROK	M/S-SUPPLY&APPLY

30/06/21  
SSE/QC/MCF/RBL  
वरिष्ठ अनुष्ठानिक विभाग  
गुणवत्ता विभाग  
रेडिओ, रायबरेली (लालगंज)





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	ECR	COACH NO	211868/C	DATE OF DISPATCH	25-Jun-21
Type	LWACCN	Shell No.	21N001	DISPATCH TO	Sr.DME/DNR/RNCC
				FUR.NO.	L3T-TEJ-92
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	6382 12/21	
ii	Distribution valve		M/S-KBI	2021C13337	
iii	Pull box		M/S-KBI		
iv	FIBA		M/S-ESCORTS	18110243,18120350	
v	Foot Step		M/S-HI TECH RBL		
vi	Decoupling arrangement		M/S-PULSAR INDS KOLKATA		
vii	Floor board		M/S-TWPL MUMBAI		
viii	PVC		M/S-HFGW VADODARA		
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-HFGW VADODARA		
xiv	Emergency Window		M/S-HFGW VADODARA		
xv	Lavatory/hopper Window		M/S-HFGW VADODARA		
xvi	Roof Ceiling		M/S-HFGW VADODARA		
xvii	Door way /gang way ceiling		M/S-GANDHI SAFE &ALLIED		
xviii	Supply Air Duct		M/s-SAHAI SEATING KXH		
xix	Partition panel		M/S-HFGW VADODARA		
xx	Partition pillar		M/S-HFGW VADODARA		
xxi	Side Wall panel		M/S-HFGW VADODARA		
xxii	AC Trough		M/S-TATA STEEL KOLKATA		
xxiii	Body Side Doors		M/S-KNORR BREMSE PALWAL		
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-AMIT ENGG SALON		
xxix	Bio Tank		M/s-JSL LIFE		
xxx	Pressurized flushing (ele. Pneu.)		NIL		
xxxi	Auxiliary Water Tank		M/S-AMIT ENGG MOHALI		
xxxii	Under Slung Water Tank ( 2X685L)		M/S-OASIS		
xxxiii	Under Slung Water Tank (1x450 L)		M/S-AMIT ENGG BADDI		
xxxiv	Health Faucet		M/S-HFGW VADODARA		
xxxv	Lotah Filler Tap		M/S-HFGW VADODARA		
xxxvi	Bib cock		M/S-JUPITER AQUA LTD		
xxxvii	Lavatory Modules		M/S-HFGW VADODARA		
xxxviii	Lavatory Doors		M/S-HFGW VADODARA		
xxxix	Fire Extinguisher		M/S-SHAAN	538/577	
xxxx	Seat & Berth		M/S-HFGW VADODARA		
xxxxi	Snack Table		M/S-HFGW VADODARA		
xxxxii	Light Luggage Rack		M/S-HFGW VADODARA		
xxxxiii	Venturi grill		NIL		
xxxxiv	Auto janitor		M/S-HFGW VADODARA		
xxxxv	Automatic smoke & heat Detection with alarm System		M/S-SANROK		
14.B	TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)				
i	Vacuum toilet system		M/S-CEMCON CASTING		
ii	Odour control system		M/S-HFGW VADODARA		
iii	CCTV		M/S-PUNJAB RADIO JUC		

वरिष्ठ अधिकारी  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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### ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2021-22-271 (TEJAS)

RLY	E	C	R	Coach No.	2	1	1	8	6	8	/	C	-	DATE OF DISPATCH	2	5	0	6	2	0	2	1
DISPATCH	Sr.DME/DNR/RNCC				Type	L	W	A	C	C	N	Shell No.	2	1	N	0	0	1	FUR.NO	L3T-Tej-92		

#### 15. DETAIL OF BOGIES:-

ITEMS	NPP Side				PP Side			
Bogie No	210493				210494			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5 - 2831				MCF/RBL/LS5 - 2800			
Bolster no.	S.C.I - 516				S.C.I. - 468			
Axle No	21 D - 3876 RWF		21 E - 0430 RWF		21 E - 0427 RWF		21 D - 3744 RWF	
Wheel Dia	917.443	917.477	917.57	917.53	917.57	917.53	917.46	917.52
Wheel Disc No	TZ 09-20 33857-OTC3	TZ 09-20 31364-OSD0	TZ 06-20 18976-OPJ9	TZ 06-20 42869-OPF7	TZ 09-20 33570-OTE1	TZ 09-20 33572-OTE1	TZ 06-20 18972-OPJ9	TZ 09-20 27824-OTE2
R.B. Nos.	09-20 302195	10-20 435098	11-20 304928	11-20 303880	11-20 438044	10-20 434026	11-20 436390	11-20 436577
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
Make & Nos.	RESISTOFLEX S. No.- 03-21 0933	RESISTOFLEX S. No.- 03-21 0773	RESISTOFLEX S. No.- 03-21 0966	RESISTOFLEX S. No.- 03-21 0792

#### 17. TRACEABILITY OF BOGIE ITEMS:-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	334546,334348	334360,334640
2.	Primary outer Spring	CMFSK	10-20-F03-028-(345,155,347,141)	10-20-F03-028-(367,129,24,45)
3.	Primary Inner Spring	CMFSK	08-20-F04-185-(38679,593,689)	08-20-F04-185-(17,32,563,670)
4.	Primary Damper	IAI	12-19(290042,289853,288883,289824)	12-19(288714,289484,288829,289005)
5.	Secondary Damper	IAI	01-20 (295351,295322)	01-20 (295331,295183)
6.	Lateral Damper	IAI	01-20 297970	01-20 298104
7.	Brake Cylinder	KBI	D-(3064,1317,1326,3055)-K-29	D-(2645,1071,1353,3135)-K-29
8.	Brake Caliper	KBI	2921067526,2921057551, 2921057553,2921067527	2921067139,2921057303, 2921097598,2921127602
9.	Brake Disc	KBI	24241018-0045-49-20,24241014-0010-47-20, 24241012-0026-47-20,24241012-0028-47-20	24241012-(0024,0037)-47-20, 24241013-(0019,0006)-47-20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ/JI		
14.	Ball joint traction lever	BONY/GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	FAV/KNORR	C20 - (1045,160)	39/20-D0072,39/20-D0093
17.	Check Valve	FAV/KNORR	F20 - 091	10-20 28427
18.	Anti roll bar Make	SF(SARITA)		
19.	Roll Link make	SF+GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SF(SARITA)	H-(19,108,19)	H-(167,42,13,)
22.	Control Arm Lower	SF(SARITA)	H-(67,128,33,52)	H-(39,164,18,72)
23.	Phonic Wheel	KBI	K-02-21	K-02-21

Signature of SSE/Bogie/QC	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL
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सहायक यांत्रिक इंजीनियर  
Asst. Mechanical Engineer  
आ. र. डि. का. रायबरेली  
MCF, RBL

Dy. Chief Cushty Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli





# ADVANCE PAINTS

CORROSION PROTECTION PROFESSIONALS

## WARRANTY CERTIFICATE

To,  
Dy. CME Paint  
Modern Coach Factory,  
Lalganj,  
Raebareli-229120

Date:- 08.05.2021

Sub- Performance Warranty Certificate.

Ref No- PO No.- 06201014101538 dtd. 17.11.2020

Name of Work- Supply and Application of PU Paint for painting of LHB type Tejas coaches.

Dear Sir,

With Reference to the above, we do hereby confirm the warranty for three years from the date of application of the delivered before mention coaches vide your above referred purchase order after application and due inspection at your end.

SL. No.	Shell No.	Furnishing No.	Coach No.	Railway No.	Date of Completion
48	LWACCN QIN001	L3T (TEJ) 92	211868/C	ECR	29.4.21

The Warranty is applicable from the date of dispatch against the below mentioned defects as per RDSO specification no. M&C/PCN 100/2018.

- Gloss level value of applied paint initial 85 unit (on the date of painting) and minimum 80%, 70% & 6% of initial gloss after one year, two year and three years respectively from the date of application.
- Decolourization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.

Thanking you

Yours Faithfully,

For Advance Paints Pvt. Ltd

Authorized Signatory

## ADVANCE PAINTS PVT. LTD.

Advance House, Plot No. A, Ark Industrial Compound, Makwana Road, Marol Naka, Andheri (East) Mumbai 400 059, India  
T: +91 22 28590162/63/64 \* F: +91 22 2852 8826 \* govtdept@advancepaints.com \* www.advancepaints.com

A GALIAKOTWALA GROUP COMPANY



Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना,  
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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		ECR	ELECT. FIT DATE	25-06-2021	MCF FUR. NO.
					211868/C
					3T(TEJAS)-92
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	29.84 Cub mtr/min			OK
3.2	Return Air	57.14 Cub mtr/min			OK
3.3	Exhaust Air	6.05 Cub mtr/min			OK
3.4	Conditioned Air	168.03 Cub mtr/min			OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition  PP Side : <b>21.3°C</b> NPP Side : <b>20.9°C</b>				OK
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> 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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**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)	OK
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 : <b>AMIT ENGG.</b> Sr no of RMPU 1(NPP side ) : <b>6173 D</b> Sr no of RMPU 2(PP side): <b>6178 D</b> Sr no of Microprocessor. : <b>AE 2102005</b>	As per RDSO/PE/SPES/AC/0061/REV-1/2005	<b>01 Set</b>
02.	Switch board cabinet Make : <b>MV ELECTROSYSTEMS</b> Sr no : <b>21030094</b>	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0) <b>MEDTS-0004,Rev.-1 for Smart SBC</b>	<b>01 no.</b>
03.	Pump equipment with PLC controller & pump box Make: <b>HIND</b> PA Sr.no: <b>20/10/345</b> Sr no.1: <b>20/10/729</b> Sr no.2 : <b>20/10/730</b> Sr.no.CPA: <b>20/10/570-HIND</b>	As per spec EDTS 186,Rev-a, Am-2.  As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	<b>01 Set</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02 no.</b>
05.	Provision of Passenger area LED Light(Cabin) Make: <b>ENSAVE</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09 no.</b>
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	<b>OK</b>
07.	Provision of Cabin/Corridor Light with Night light. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09 no.</b>
08.	Mounting of Cabin/Corridor Light with Night light.	As per drg no. LW 76091.	<b>OK</b>
09.	Provision & mounting of Doorway/Gangway light. Make: <b>AKG ELECT.</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099 -	<b>07 no.</b>
10.	Provision & Mounting of PACIL Assly. Make: <b>KAVERI</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02 no.</b>
11.	Provision & Mounting of WC light. Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097. -	<b>02 no.</b>
12.	Provision & Mounting of Lavatory Light. Make: <b>IMT</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092. -	<b>04 no.</b>
13.	Provision of Emergency Lighting system Make: <b>INTEG</b>	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	<b>04 no.</b>
14.	Provision of razor socket for WC for 110/240V Make: <b>N/A</b>	. EDML047,ITEM-4	<b>N/A</b>

Senior Section Engineer  
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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: <b>AHUJA</b>	EDTS 173,Rev- B,Cor-1	<b>01 Set</b>
16.	Provision of terminal strip complete	EDML 034,Rev-C,DRG NO.LW76054	<b>01 Set</b>
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 : <b>SKS</b>	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-4 ,Drg. No. LW74202	<b>09 no.</b>
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 : <b>SKS</b>	As per spec EDML-064,REV-B,Am-1 alt 'c' Item 16,Drg. No. LW74202	<b>54 no.</b>
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 : <b>SKS</b>	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-5, Drg. No. LW74202	<b>09 no.</b>
21.	Provision & Mounting of reading light for upper berth Make : <b>IMT</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2 & Drg no LW 76094	<b>27 no.</b>
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no. LW 76095	<b>18 no.</b>
23.	Provision & Mounting of reading light for berth transverse ( LHS) Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no. LW 76096	<b>18 no.</b>
24.	Provision & Mounting of reading light for berth Longitudinal. Make: <b>IMT</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76096	<b>09 no.</b>
25.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make:- 1.(NPP): <b>PRIME ELECT.</b> 2.(PP): <b>PRIME ELECT.</b>	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	<b>01 set</b>
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 : <b>HBL</b> Lug date : <b>04/21</b>	EDTS 129,Rev nil	<b>01 set</b>
27.	GPS PASSENGER INFORMATION SYSTEM FOR LHB AC-TEJAS COACHES. Make: <b>IQ NET SYSTEMS</b> MBU SL No: <b>025</b> 1. LCD (NPP) SL.No: <b>020</b> 2. LCD (PP) SL.No : <b>019</b>	RDSO/SPEC/AC/0087-2008(REV-1) & RDSO/PE/SK/AC/0182-2015 & RDSO/PE/TP/AC/0026-2015,REV-	<b>01 SET</b>

**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 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
28.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	ok
29.	Provision of cable binder.	As per Drg. No. cc76129, Item 2,4.	ok
30.	Battery box for LHB coaches. Make: <b>ANKUR</b>	As per drgno 1 10113 0 76 700 005,Alt C	01 no.
31.	Battery fuse box +ve Make: <b>INDORAIL</b>	LW 71001,Alt-H	01 no.
32.	Battery fuse box -ve Make: <b>RSI</b>	LW 71002,Alt-I	01 no.
33.	Provision of Regulated Battery Charger Make: <b>WAVES</b> Sr. no.: <b>W4K5G 201895</b>	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.
34.	Emergency battery charger Make: <b>N/A</b> Sr.no.: <b>N/A</b>	EDTS163,REV-C,COR-2&3	N/A
35.	Provision of 5 KVA TFR Make: <b>BHASIN</b> Sr no : <b>01210645</b>	As Per EDTS-366,REV-NIL & CC-71510	01 no.
36.	Provision of capacitor Bank Make: <b>NEC</b> SL.no.: <b>2020108078</b>	As per EDML-130 Rev-1,Corr-1	01 no.
37.	60KVA transformer Make: <b>VIMAL</b> Sr no : <b>VTC-R-3089-LHB-5230</b>	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
38.	Feeder junction boxes. Make: <b>SYSTEMS</b>	EDTS-328 REV-C	01 set
39.	Wheel set earthing equipment. Make: <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	01 set
40.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr. no : <b>0120416951</b>	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 set
41.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: <b>MV</b>	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	02
42.	PANTRY EQUIPMENTS(ONLY FOR RAJDHANI COACH). Hot Case, Bottle cooler cum deep freezer Make: <b>SUPER</b>	As per spec no EDTS 139, Rev-E, Sec II.	01 Set
43.	Provision of reliable wired Train bus in EOG/HOG coaches for hauling of trains by Loco's in Push-Pull mode. Make: <b>SCHALT BAU /HARTING</b>	RDSO spec. no. RDSO/PE/MS/AC/0080-2019 (Rev.-1)	01 Set

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

उपनिर्देशक नियंत्रण

आपरेटिंग/लालगंज/रायबरेली

SSE/Elect-QC/M.C.F./LJ/RBL

AWM(ELECT)/MCF/RBL

SEE(P)/MCF/RBL