



# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/PC  
REV NO: 01  
DATE: 17.04.2018

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 18-19/899

RLY	N	R	-	Coach No.	1	8	2	7	1	6	/	C	DATE OF DISPATCH	1	4	-	1	2	-	1	8	
DISPATCH TO	Sr. DME/CHG/DLI	Type	L	W	L	R	R	M	Shell No.	8	8	0	5	5	-	2	0	1	8	-	1	9

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated. - 14-12-2018

2. Tare Weight of Coach : 53.2 Tonnes

3. Carrying Capacity :

(a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones

### 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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1098 (NPPE) 2) 1099 (PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- CHENNAI RADHA	02
	Complete	NPP END M/S- CHENNAI RADHA	02
2.	Lav. side wall	M/S- CHENNAI RADHA	02
		M/S- CONTRACTOR V4U	LAV.1 173 LAV.2 174
		M/S- CONTRACTOR V4U	LAV.3 175 LAV.4 176
3.	Side wall	LH SIDE MCF/RBL	51/01
		RH SIDE MCF/RBL	51/02
4.	End wall	PP END M/s- AMIT ENGG. MOHALI	---
		NPP END M/s- AMIT ENGG. MOHALI	---
5.	Roof	M/s- INDIRA	---
6.	Centre Buffer Coupler	M/S- SANROK ENT.	22
7.	Buffers	M/S- RANEKA INDS.LTD. DHAR	PP END 1309 NPP END 1293
			N.A NPP END 88055

### 6. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1.	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	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1kg/cm <sup>2</sup> /Sec, after 06 Sec.	Brake must apply	OK
4.	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

### 7. FIRE TESTING:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1	generator car	Smoke detection	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate	OK
		Heat detection	1.controller should display smoke/heat in zone 1,2 2 strobe light & hooter should activate	OK

### 8. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-NEROLAC	SUPPLY & APPLY	88/77
2.	Insulation			Satisfactory	

*Signature*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओ, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

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RLY	N	R		-	Type	L	W	L	R	R	M	Shell No.	8	8	0	5	5	-	-	-	-	-	-	-

## 8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180984				180983			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-805				MCF/RBL-832			
Bolster no.	VS-235				APEX-371			
Axle No	18 E - 5458 RWF		18 E - 8231 RWF		18 E - 8421 RWF		18 E - 8288 RWF	
Wheel Dia	917.557	917.569	917.528	917.562	917.544	917.546	917.574	917.573
Wheel Disc No	TZ06-18 29740-8QP1	TZ07-18 32446-8RG7	TZ07-18 32444-8RG7	TZ06-18 29725-8QP1	TZ07-18 33650-8RH6	TZ07-18 33644-8QM2	TZ07-18 29741-8QP1	TZ06-18 28564-8QM1
R.B. Nos.	05-18 27417	05-18 36965	05-18 27124	05-18 28253	05-18 27605	05-18 27133	05-18 28251	05-18 29858
CT R B Make	SKF		SKF		SKF		SKF	

## 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.	RSK08-18F16- S34-16Y-390	CMGBD03-18- 837-22-158	RSK08-18F16- S34-16Y-236	CMGBD03-18-837- 22-110	CMGBD05-18- 146-54-18	CMRSK01-18- F15N75-15Y-49	CMGBD05-18-146- 54-47	CMRSK01-16-F15- N99-15Y-32
Compressed Ht. at Tested Load	514	471	514	471	512	466	511	468
Alignment deviation (mm)	6	8	8	8	12	24	49	22

## 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR BREMSE	9015,9035	9034,9029
2.	Primary outer Spring	CMGBD	02-18 142-21(195,214,202,138)	02-18 142-21(200,194,196,57)
3.	Primary Inner Spring	YR	17-12 (6.13-456,0.18-440,2.77-465,3.83-476)	17-12 (1.51-517,2.37-515,1.03-503,1.02-519)
4.	Primary Damper	KNORR	05-18 (20632,20648,20634,20658)	05-18 (20641,20650,20657,20643)
5.	Secondary Damper	KNORR	06-18 (5213,4761)	06-18 (5211,5206)
6.	Lateral Damper	KNORR	03-18 193	03-18 2023
7.	Brake Cylinder	FAV	E18-001,F18-019,E18-026,E18-003	E-18-057,F18-(036,031,004)
8.	Brake Caliper	FAV	G18(024,006,022,023) - B	G18(007,005,021,008) - B
9.	Brake Disc	KBI	24158716 0007-37/18,24158715 0026-37/18 24158715 0027-37/18,24158714 0057-37/18	24158706 0060-35/18,24158707 0045-35/18 24158700 0010-34/18,24158797 0014-34/18
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	120918-1,060918-2,110918-2,RVE	RVE,RVE,100918-1,RVE
22.	Control Arm Lower	RVE	150918-1,040918-1,040918-1,RVE	070918-2,060918-4,180918-1,040918-1

Signature of SSE/Bogie/QC





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### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	G 18007 B
2.	Distribution Valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18075650 B
3.	Hand Brake Equipment	M/S- PALSTO POWER P.B.	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD. FARIDABAD	
5.	Floor Board	M/S- TWPL, MUMBAI	
6.	PVC	M/S- RESPONSIV POLYFILM, NDLS	
7.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
8.	Gangway Bridge Mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
9.	AL. Chequer Plate/Sheet	M/S- HANSPAL COACH PRODUCTS, KXH	
10.	Automatic Fire Detection & Suppression System	M/S- SANROK, FARIDABAD	
11.	Body Side Window	M/S- BIRKAN ENGG.PVT.LTD.GAZIABAD	
12.	Lavatory/Hopper Window	M/S- BIRKAN ENGG.PVT.LTD.GAZIABAD	
13.	Roof Ceiling	M/S-GANDHI SAFE & ALLIED, JALANDHAR (GUARD ROOM) , (CREW ROM)	
14.	Generator Room Ceiling	M/S- RAIL TECH PVT.LTD. KXH	
15.	RMPU	M/s- INTECH, DEHRADUN	
16.	AC Trough	M/s- GEE PEE, GURGAON	
17.	Luggage Sliding Door	M/s- GURU NANAK IND. PVT.LTD. PB	
18.	Hatch Door	M/s- RAIL TECH PVT.LTD. KXH	
19.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
20.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Crew/Gen. Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Crew/Guard Room Door	M/S- KALSI, LDH	
23.	Bio Tank (01 No Lav.)	M/S- AMIT ENGG. MOHALI	
24.	Auxiliary Water Tank(1x30l)	M/S- AMIT ENGG. MOHALI	
25.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENGG. BADDI	
26.	Fuel Tank (2x1500 L)	M/S- SHIVALIC FASTNERS PVT.LTD. MOHALI	
27.	Flexible Faucet	M/S- HINDUSTAN FIBRE LTD. VADODARA	
28.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE LTD VADODARA	
29.	Bib Cock	M/S- AGMECO INDIA LTD.	
30.	Composite Modular Toilet	M/S- HINDUSTAN FIBRE LTD VADODARA	
31.	Lavatory Doors	M/S- KALSI, LDH	
32.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S- TECHNO IND. ALD	

*Alma*  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग  
रेडिंक 0, रायबरेली (लागू)





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DISPATCH TO	Sr. DME/CHG/DLI		Type	L	W	L	R	R	M	Shell No.	8	8	0	5	5	-	2	0	1	8	-	1	9
13. MODIFICATION (IF ANY)												Nil											

13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

### 16. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, clutch wire 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 qualityrcfrbl@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.

SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

मुख्य गुणवत्ता विभाग  
रेडिओक ०, रायबरेली (लालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli

जोगिन्दर सिंह  
उप मुख्य गुणवत्ता अधिकारी  
Dy. Chief Quality Manager  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB POWER CAR  
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ROLLING STOCK CERTIFICATE OF LHB POWER CAR				
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR				
TYPE COACH		LWRRM	SHELL/COACH NO	182716/C
RAILWAY		NR	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	10.28 Cub mtr/min		OK
3.2	Return Air	34.88 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	61.07 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  <b>Not done due to Ambient temp. below 22°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.  <b>Not done due to Ambient temp. below 22°C</b>			OK

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**





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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB POWER CAR  
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FAN OVER	OK
10.0	LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGERS	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	HYGROSTAT	OK
16.4	CONTROL CIRCUIT	OK
16.5	POWER CIRCUIT	OK
16.6	ALTERNATER EARTH LEAKAGE RELAY	OK
16.7	FEEDER EARTH LEAKAGE RELAY	OK
16.8	UNDER VOLTAGE RELAY	OK
16.9	OVER VOLTAGE RELAY	OK
16.10	BUS COUPLAR	OK
16.11	FEEDER CONTACTOR	OK
16.12	SMOKE TEST	OK
17.0	REFRIGERANT USED	OK

**R 407C**

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ROLLING STOCK CERTIFICATE OF LHB/ POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : <b>INTEG</b> Sr no of RMPU (PP side): <b>18F 1047T2</b> Sr no of Microprocessor: <b>18.06.1677 -SIDWAL</b>	RDSO/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Power and Control Panel for LHB Power car, Make: <b>TRINITRON</b> Sr no : <b>18/10/TCS/RBL/3414/LHB/0042</b>	EDTS-103 ,REV-c	<b>01</b>
04.	Switch board cabinet Make : <b>SSK</b> Sr no : <b>2018-09-053</b>	EDTS 104, REV-a	<b>01</b>
05.	Pump equipment with PLC controller & pump box Make: <b>DR AUTO</b> Sr no PA- <b>2018/10/32</b> Sr no.1- <b>18090460</b> Sr no.2- <b>18090326</b> Sr no.CPA- <b>2018/10/035</b>	EDTS 186,Rev-a, Am- 2	<b>01</b>
06.	Lavatory light fitting assly Make : <b>RT VISION</b>	LW 76001,Alt nil	<b>01</b>
07.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>
08.	Razor socket for WC 110/240V Make :. <b>SSK</b>	EDML 047 ,Rev nil	<b>01</b>
09.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01</b>
10.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev` a`	<b>01</b>
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev- C, Item 1.	<b>02</b>
12.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,TYPE -II	<b>01 set</b>
13.	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>08/18</b>	EDTS 129,Rev nil	<b>01 set</b>

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## ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: <b>CELTEK</b> Lug date: <b>08/18</b> (B) Make: <b>CELTEK</b> Lug date: <b>08/18</b>		<b>02 sets</b>
15.	Battery box for LHB coaches. MAKE- <b>ANKUR ENGG.</b>	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	<b>01</b>
16.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
17.	Battery fuse box -ve Make : <b>NEC</b>	LW 71002,Alt-F	<b>01</b>
18.	60KVA TFR Make- <b>VIMAL</b> Sr no:1. <b>VTC-3089-LHB-6871</b> Make- <b>VIMAL</b> Sr no:2. <b>VTC-3089-LHB-6818</b> Make- <b>VIMAL</b> Sr no:3. <b>VTC-3089-LHB-6898</b>	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	<b>03</b>
19.	Capacitor Bank Make: <b>S.INTERNATIONAL</b> SL.no <b>399-04/18</b>	EDML-130 Rev-1,Corr-1	<b>01</b>
20.	Emergency Battery Charger Make- <b>NAREN</b> Sr no:1. <b>18084456</b> Make- <b>NAREN</b> Sr no:1. <b>18084479</b>	EDTS-163 REV-C, corg-2&3	<b>02</b>
21.	Wheel set earthing equipment. Make : <b>DARSHAN INTERPRISES.</b>	EDTS101,REV-C,AM-1	<b>02</b>
22.	Wheel Slide Protection System (WSP) Make- <b>FAIVELEY</b> Sr no : <b>26/18/1095</b>	MDTS 077 REV-2	<b>01 set</b>
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	<b>02</b>
23.a1	Sr no of Alternator "A" Make- <b>STAMFORD</b> Sr No- <b>N18G291734</b>	EDTS 102, Rev`c'	<b>01</b>
23.a2	Sr no of Diesel Engine "A" Make- <b>CUMMINS</b> Sr no- <b>254389936</b>	EDTS 102, Rev`c'	<b>01</b>

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## ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- <b>STAMFORD</b> Sr No- <b>N18G302054</b>	EDTS 102, Rev`c'	<b>01</b>
23.b 2	Sr no of Diesel Engine "B" Make- <b>CUMMINS</b> Sr no : <b>25438934</b>	EDTS 102,	<b>01</b>
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- <b>INDORAIL</b> Sr no- <b>2018080299</b>	EDTS 110,REV-NIL	<b>01</b>
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: <b>ABB</b> Sl no: <b>1595812</b> 2.Make: <b>ABB</b> Sl no: <b>1594385</b>	EDTS 110,Rev nil	<b>01</b>
26.	Radiator Fan Motor for Diesel Engine -"A" Make: <b>ABB</b> SL no: <b>3G1J18170001576686</b>	EDTS 104, Rev`a'	<b>01</b>
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- <b>ABROL</b> Sr no- <b>2018-07-91</b>	EDTS-104,REV-A	<b>01</b>
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: <b>ABB</b> Sl no: <b>1595861</b> 2.Sl no <b>1595859</b>	EDTS 110,Rev nil	<b>01</b>
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- <b>INDORAIL</b> Sr no- <b>2018080302</b>	EDTS 110,REV-NIL	<b>01</b>

Senior Section Engineer  
Quality control / Electrical  
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ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: <b>ABB</b> Sr no- <b>3G1J18190001582257</b>	EDTS 104, Rev`a'	<b>01</b>
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- <b>ABROL</b> Sr no- <b>2017-07-116</b>	EDTS-104,REV-A	<b>01</b>
32..	Starter Battery Charging Control Panel -A & B Make : <b>INDO RAIL</b> Sr no: <b>2018050039</b>	EDTS 116,Rev nil	<b>01</b>
33.	Feeder Junction box. Make: <b>AECO</b>	EDML 020, Rev`a'.	<b>01 set</b>
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- <b>INTEG</b>	EDTS-331, TYPE-2	<b>01</b>
35.	Lights Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	<b>20</b>
36.	Smoke Detector Unit. Make: <b>AG RAIL</b> Sr no: <b>500839</b>	EDTS 087,Rev`a',Type II	<b>01</b>
37.	Provision of Tail light switch2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: <b>SSK</b>	As per Cat no. SG 16	<b>02</b>
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): <b>MAA LAXMI INDUSTRIES</b> 2.(PP): <b>MAA LAXMI INDUSTRIES</b>	EDTS 105, Rev`c'.	<b>01 set</b>
39.	Connector for External supply socket. Make: <b>MV</b>	EDML 013, Rev nil.	<b>02</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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