



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/PC

REV NO: 00

DATE: 10.10.2017

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 18-19/101

Coach No.										1	7	8	6	1	/	C	-	-	DATE OF DISPATCH										2	2	-	0	5	-	1	8
RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.		7	8	0	3	6	-	2	0	1	8	-	1	9										

2017/M(C)/142/2 Dated. 26.05.2017

1. Railway Board's Order No. : 2017/M(C)/142/2 Dated. 26.05.2017
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) 1103 (NPPE) 2) 1099 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

5. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO			
1.	Under frame	Front Part	M/S E.c.blades &tool pvt. Ltd CDG	PP END	228	NPP END	228
		Complete	M/S E.c.blades &tool pvt. Ltd CDG				
2.	Side wall		M/s MCF/RBL	RH	78036	LH	78036
3.	End wall		M/S Rail tech pvt.ltd. KXH	PP END	78036	NPP END	78036
			M/S Omax auto gurgaon HR				
4.	Roof		M/S DTL ancillaries ltd pune				
5.	Centre Buffer Coupler		M/S Escorts ltd railway equipment FBD	PP END	3514	NPP END	3520
6.	Buffers		M/S Raneka ind.ltd.	N.A		NPP END	78036

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 ² . Max. pressure in BC All Brake are applied	6 - 10 sec. 3.0 ± 0.15 kg/cm ² . OK	07 sec. 3.0 kg/cm ² OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1kg/cm ² /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 DAETAILS:

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	76/87
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

रेडिओका 0, 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

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/101

Coach No.	1	7	8	6	1	/	C	-	-	DATE OF DISPATCH					2	2	.	0	5	.	1	8		
RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	3	6	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180462				180461			
Bogie Type	LWLRRM				LWLRRM			
Frame no.	SCI/FM-1675				MCF/RBL-720			
Bolster no.	SFPL-28				SFPL-291			
Axle No	17 D- 1333 RWF		17 D - 1356 RWF		17C- 4143 RWF		17 D- 2540 RWF	
Wheel Dia	917.516	917.463	917.449	917.517	917.45	917.439	917.478	917.454
Wheel Disc No	TZ 05-17 19832-7PL3	TZ05-17 20041-7PK9	TZ05-17 19833-7PL3	TZ05-17 18826-7NJ8	TZ-05-17 20193-70K8	TZ-05-17 20204-70K8	TZ-05-17 20202-70K8	TZ-05-17 20203-70K8
R.B. Nos.	10-17 15576	11-17 18598	10-17 17741	11-17 19264	06-17 18568	08-17 28096	06-17 18009	08-17 28110
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.	CMGBD02-18- 83619-192	CMAFJ02-18- 8837-15	CMGBD02-18- 83619-128	CMAFJ02-18- 8837-17	CMGBD02-18- 14614-38	CMGBD01-18- 14501-94	CMGBD02-18- 14614-30	CMGBD01-18- 14501-139
Compressed Ht. at Tested Load	512	466	514	471	512	468	510	467
Alignment deviation (mm)	12	19	12	17	10	12	10	8

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	SV	72,23	19,28
2.	Primary outer Spring	CVFSK	01-18 7142-350(84,274,46,78)	01-18 7142-350 (238,62,268,55)
3.	Primary Inner Spring	CMFSK	02-18 1038-396(223,228,125,174)	02-18 1038-396(281,148,295,142)
4.	Primary Damper	KNORR	02-18(16500,16502,16498,15655)	01-18 (15879,15397,15700,16013)
5.	Secondary Damper	IAI	01-18(195783,195786)	01-18(197462,198575)
6.	Lateral Damper	KNORR	03-18 1950	03-18 1978
7.	Brake Cylinder	KBI	A0868K29,A0427K29,A0828K29,A0871K29	A0872K29,L7564-35,L7569-35,A0866K29
8.	Brake Caliper	KBI	0784-29,A397-29,0398-29,0783-29	0781-29,0003-29,0004-29,0782-29
9.	Brake Disc	KBI	24113610 0011-37/17,24113604 0020-36/17 24113604 0008-36/17,24113604 0007-36/17	24113604 0021-36/17,24113604 0022-36/17 24113604 0025-36/17,24111695 0035-36/17
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	J101-17		
14.	Ball joint traction lever	MTC		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ S-BLOC		
20.	Fork make	SARITA		
21.	Control Arm Upper	RVE	200318-2,210318-2,210318-2,170318-2	200318-2,110318-2,240318-2,220318-2
22.	Control Arm Lower	RVE/PTC	RVE,250318-2,250318-3,250318-2	RVE,250318-3,250318-3(PTC-239)

Signature of SSE/Bogie/QC





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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	3	6	-	2	0	1	8	-	1	9

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	1195659 0052/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018 A4175
3.	Hand brake equipment	M/s PALSTO POWER	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL mumbai	
6.	PVC	M/s Premier polyfilm, New Delhi	
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 Rail tech pvt.ltd. KXH	
12.	Lavatory/hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
13.	Roof Ceiling	M/s Amirchand engg. Jalandhar (guard room) & GANDHI SAFE & ALLIED Jalandhar(crew room)	
14.	Generator room ceiling	M/S Rail tech pvt.ltd. KXH	
15.	RMPU	M/s SIDWALL Faridabad	
16.	AC Trough	M/s Geepee guargao	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S HAPPY ENG. CDG	
19.	Body Side Doors	M/s SUKATA CDG	
20.	Vestibule Door(NPPE)	M/s Hanspal coach products KXH	
21.	Crew/gen. room door	M/s JBM Faridabad	
22.	Crew/guard room door	M/s kalsi LDH	
23.	Bio Tank (01 No LAV.)	M/s RAIL FAB KXH	
24.	Auxiliary Water Tank(1x30L)	M/s MANOJ ENT.. mohali	
25.	Under Slung Water Tank (1x450 L)	M/s AMIT ENGG.. mohali	
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 AGMCO PVT.LTD	
30.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
31.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
32.	Seat & Berth	M/s GANDHI SAFE & ALLIED JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S OM IND, UTTRA KHAND	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.										7	8	0	3	6	-	2	0	1	8	-	1	9							
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 qualityrcfbl@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. QM/MCF/RBL

रेडि०का०, रायबरेली (लालगंज)

सहायक यांत्रिक अभियंता/गुणवत्ता
Assistant Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/ QEF 8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

TYPE COACH		LWRRM	SHELL/COACH NO	18861/C
RAILWAY		NWR	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	14.62 Cub mtr/min		OK
3.2	Return Air	44.74 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	49.33 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 :22.4 °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			OK


 Senior Section Engineer
 Quality control / Electrical
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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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Quality control / Electrical
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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 : SIDWAL Sr no of RMPU (PP side): 17 M 1181 Sr no of Microprocessor: 17.12.1095	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car, Make: ISG Sr no : PCP-MCF-18-01-0018	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : ISG Sr no : SBC-MCF-18-03-0008	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: KIND Sr no PA- 07/17-0022 Sr no.1- 17070043 Sr no.2- 17070044 Sr no.CPA- 17090086	EDTS 186,Rev-a, Am- 2	01
06.	Lavatory light fitting assly Make : DR AUTO	LW 76001,Alt nil	01
07.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02
08.	Razor socket for WC 110/240V Make : SSK	EDML 047 ,Rev nil	01
09.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
10.	Terminal connector Make : WAGO	EDML 037,Rev`a`	01
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev- C, Item 1.	02
12.	PA system for LHB coaches Make : AHUJA	EDTS 173,TYPE -II	01 set
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 : HBL Lug date : 04/2017	EDTS 129,Rev nil	01 set


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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: CELTEK Lug date: 02/2018 (B) Make: CELTEK Lug date: 02/2018		02 sets
15.	Battery box for LHB coaches. MAKE- HITECH	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
18.	60KVA TFR Make- AUTOMATIC Sr no:1. 8/17/T509927/90 Make- VIML Sr no:2. 5351 Make- VIMAL Sr no:3. 5352	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: STANDERD CAPACITOR SL.no. 17A 461	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- M.B COMP. Sr no:1. 2017/12/566 Make- M.B COMP Sr no:2. 2017/12/622	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- KNORR Sr no : 0117423955	MDTS 077 REV-2	01 set
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	02
23.a1	Sr no of Alternator "A" Make- STAMFORD Sr No- N17L511012	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- CUMMINS Sr no- 25432861	EDTS 102, Rev`c'	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- STAMFORD Sr no : N17L490264	EDTS 102, Rev `c'	01
23.b 2	Sr no of Diesel Engine "B" Make- CUMMINS Sr no : 25432862	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- ISG Sr no- CPVF-MCF-17-09-0023	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: ABB Sl no: 1523241 2.Make: ABB Sl no: 1523239	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3G1J1740001434313	EDTS 104, Rev `a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- NEC Sr no- 2017081827	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: ABB Sl no: 1523238 2.Sl no 1523231	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- ISG Sr no- CPVF-MCF-17-09-0023	EDTS 110,REV-NIL	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: ABB Sr no- 3G1J17140001434314	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- NEC Sr no- 2017081881	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : ISG Sr no: SBC-MCF-17-08-0061	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: NEC	EDML 020, Rev`a'.	01 set
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- INTEG	EDTS-331, TYPE-2	01
35.	Lights Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	20
36.	Smoke Detector Unit. Make: AG RAIL Sr no: 500294	EDTS 087,Rev`a',Type II	01
37.	Provision of Tail light switch 2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: SSK	As per Cat no. SG 16	02
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): PRIME ELECT. 2.(PP): PRIME ELECT.	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: MV	EDML 013, Rev nil.	02

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंग/कॉन्ट्रोल/लालगंज/रायबरेली

S.S.E./Elect-QC/M.C.F./LLJ/RBL

SEE(P)/MCF/RBL/
DYCEE/P&P/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

रेल कोच फैक्टरी, रायबरेली, लखनऊ

Sr. Electrical Engineer / RCF / RBL / Lucknow

