



Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/980

5. SHELL LEADING DIMENSIONS:

6. TRACEABILITY OF SHELL ITEMS:

7. AIR BRAKE TEST REPORT:

8 PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1	Paint	P.U	GSI	M/s-GSI (S&A)	76/91	21-Nov-20
2	Insulation	Satisfactory				

12/02/2021
 SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 नै0डि0का0, रायचरेली (नालगंज)



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/2020-21 – 980 (TEJAS)**

RLY	W	R	-	-	Coach No.	2	1	1	0	5	9	/	C	-	DATE OF DISPATCH	3	1	0	1	2	0	2	1
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DISPATCH	Sr.DME/C&W/BCT	Type	L	W	C	B	A	C	Shell No.	2	0	P	0	0	4	FUR .NO	Tej /BAC-03
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201765				201766			
Bogie Type	LSASP				LSASP			
Frame no.	MCF/RBL-2267				MCF/RBL-2356			
Bolster no.	MCF/RBL-2518				MCF/RBL-2646			
Axle No	20 A- 7512 RWF		20 A- 7780 RWF		20 A- 3147 RWF		20 A - 3822 RWF	
Wheel Dia	917.35	917.40	917.39	917.37	917.08	917.31	917.53	917.39
Wheel Disc No	TZ 05-19 43500-9PE1	TZ 03-19 29824-9MK2	TZ 05-19 42282-9PI3	TZ 05-19 42281-9PI3	TZ 05-19 46667-9PD5	TZ 12-18 12354-8WM9	TZ 12-18 12356-8WN9	TZ 12-18 12353-8WT3
R.B. Nos.	01-20 403598	01-20 403188	01-20 403790	01-20 401634	02-20 500735	01-20 405712	01-20 406212	01-20 402562
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
Make & Nos.	TAYAL & CO. 08-18 0637	TAYAL & CO. 11-18 1405	TAYAL & CO. 06-20 0666	TAYAL & CO. 06-20 0439

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	6893,6895	6891,6898
2.	Primary outer Spring	CMAFI	07-20 7411-- (607,606,601,603)	07-20 7411-(604,602,605,608)
3.	Primary Inner Spring	CMSTL/ CMRSK	02-19 F02-545-02A (6562-262,8847-261,1702-264,7201-261)	CMSTL-02-19 F02-545-02A-7677, CMRSK-06-14 F02-A91-(287,402,127)-1702
4.	Primary Damper	GABRIEL	03-20 (522,520,513,517)	03-20 (546,539,560,557)
5.	Secondary Damper	KONI	04-19 (04046,04156)	04-19 (05484,04050)
6.	Lateral Damper	IAI	03-20 313493	03-20 313454
7.	Brake Cylinder	KBI	C(9532,8081,8082,9533)K29	C(9775,9731,K29,D(1170,1172)K29
8.	Brake Caliper	KBI	C(5106,5249,5248,5092)-29	C(6582,6783,6741,6580)-29
9.	Brake Disc	FAV	06-20 (6647,6448,6649,6650)D133561-300	07-20 (1028,1027,442,441)D133561-300
10.	Ball Joint Control Arm	ARYAN/BONY		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	RF		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT/AR		
15.	Ball joint traction centre	AR/BONY		
16.	Leveling Valve	ESCORT	20-08 4668,20-08 4838	20-08 4656,20-08 4651
17.	Check Valve	ESCORT	20-08-0885	20-08-8671
18.	Anti roll bar Make	RF		
19.	Roll Link make	RF/BONY		
20.	Fork make	RF		
21.	Control Arm Upper	RVE/CC	271219-1,191219-3,191219-3,271219-1	20B267,20B68,20B354,20B210
22.	Control Arm Lower	RVE/CCP	231219-5,141219-3,241219-1,231219-5	20A458,20A513,20G249,20A462
23.	Phonic Wheel	KBI	K 07-20	K 07-20

Signature of SSE/Bogie/QC





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
LBAC REV NO: 00
DATE: 21.02.2019

ROLLING STOCK CERTIFICATE (TEJAS)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/980

RLY	WR	COACH NO	211059/C			DATE OF DISPATCH		31-Jan-21
Type	LWCBAC	Shell No.	20P004	DISPATCH TO	Sr.DME/C&W/BCT	FUR.NO.	Tej/BAC-03	

13. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/s-KBI	5854 27/20
2	Distribution valve	M/s-KBI	2020F11702
3	Pull box	M/s-KBI	
4	FIBA	M/s-FAIVELEY	K20029,K20047
5	Foot Step	M/s-RCF/KXH (NON STOCK ITEM)	
6	Decoupling arrangement	M/s-PULSAR RUBER KOLKATA	
7	Floor board	M/s-TWPL MUMBAI	
8	PVC	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
9	UIC Vestibule (PPE)	M/s-SUNCREST KOLKATA	
10	UIC Vestibule (NPPE)	M/s-SUNCREST KOLKATA	
11	Gangway bridge mounting (PPE)	M/s-RIS KXH	
12	Gangway bridge mounting (NPPE)	M/s-RIS KXH	
13	Body Side Window	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
14	Emergency Window	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
15	Lavatory/hopper Window	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
16	Automatic Fire Detection System	M/s-SANROK ENT	
17	Roof Ceiling	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
18	Doorway/Gangway Ceiling	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
19	Supply Air Duct	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
20	Partition panel	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
21	Partition pillar	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
22	Side wall panel	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
23	AC Trough	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
24	RMPU	M/s-ESS ESS KAY (SSK)KXH	
25	Body Side Door	M/s-KNORR BREMSE LTD PALWAL	
26	Compartment Door (PPE)	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
27	Vestibule Door(PPE)	M/s-KALSI LDH	
28	Vestibule Door(NPPE)	M/s-KALSI LDH	
29	Pantry sliding door	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
30	Saloon sliding door(PPE)	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
31	FRP panels for pantry room	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
32	Shutter (small)	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
33	Bio Tanks	M/s-RAIL FAB-01 NOS,UNIFAB-01 NOS	
34	Presurized flushing eletc.pneumatic	M/s-SPAC	
35	Auxiliary Water Tanks	M/s-SHIVALIK FAST MOHALI	
36	Under Slung Water Tank (2X685L)	M/s-OASIS	
37	Under Slung Water Tank (1x450 L)	M/s-AMIT ENG BADDI	
38	Health Faucet	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
39	Lotah Filler Tap	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
40	Bib cock	M/s-JAQUAR PVT LTD ALWAR	
41	Lavatory Modules	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
42	Lavatory Doors	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
43	Fire Extinguisher	M/s-CHIRAG	17798
44	Seat & Berth	M/s-CMT MECHANISED SYS.PVT.LTD VADODARA	
45	Ventury grill	NIL	
46	RFID	NIL	

SSE
12/02/2021
SSE/QC/MCF/RBL

वरिष्ठ अनु० अभियंता
गुणवत्ता विभाग
रेलवे कारखाना, रायबरेली (लालगंज)

		Modern Coach Factory Raebareilly आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 LBAC REV NO: 00 DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE (TEJAS)					
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/20-21/980					
RLY	WR	COACH NO	211059/C	DATE OF DISPATCH	31-Jan-21
Type	LWCBAC	Shell No.	20P004	DISPATCH TO	Sr.DME/C&W/BCT
				FUR.NO.	Tej/BAC-03
14. MODIFICATION (IF ANY) : NIL					
15. DEVIATION (IF ANY) : NIL					
16. ITEM FITTED ON THE COACH ON TRIAL : NIL					
S NO	ITEM PARTICULARS		PURPOSE	REPORT	REFERENCE &
				Frequency	PERIOD OF TRIAL
	-----		-----	-----	-----
16. WARRANTY:					
S NO	COMPONENTS			WARRANTY	
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain 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 30months from the date of supply of material whichever is earlier.	
NOTE:					
1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service. 2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc. 3. 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. 4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL. 5. For any complain/ suggestion please Mail at qualityrcfbl@gmail.com 6. Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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.					
 12/02/2021 SSE/QC/MCF/RBL		 12.02.2021 SME/AME/QC/MCF/RBL Asst. Mechanical Engineer आ. रे. डि. का. रायबरेली MCF, RBL		 सुधीर कुमार Sudhir Kumar Dy. CQM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	

वरी 0अनु 0 अभियंता
गुणवत्ता विभाग
रेडिंक 0, रायबरेली (लालगंज)



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 25.01.2019

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR							
TYPE COACH		LWCBAC		SHELL/COACH NO		211059/C	
RAILWAY		WR	ELECT.FIT DATE	16-01-2021	FUR.NO	LBAC(TEJAS)-03	
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			31.68 Cub mtr/min		OK	
3.2	Return Air			82.76 Cub mtr/min		OK	
3.3	Exhaust Air			5.01 Cub mtr/min		OK	
3.4	Conditioned Air			178.16 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 Not done due to Ambient temp. below 22°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 Raebareilly**



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आधुनिक रेल डिब्बा कारखाना, रायवरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

ELECTRICAL TEST CERTIFICATE FOR LHB EOG/HOG AC HOT BUFFET CAR

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 PANTRY EQUIPMENTS	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETY :	----
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : SSK Sr no of RMPU (NPP side): 2022/20 Sr no of RMPU (PP side) : 2023/20 Sr no of Microprocessor: 2011056-SSK	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 024	As per Spec no.EDTS134,REV.D,AM-5	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 20/08/0115 Sr no.1 : 3593 Sr no.2 : 3559 Sr no.CPA : 20070132-KIND	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	01
05.	Provision & mounting of Passenger area light(Cabin) Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L & Drg no LW76090	09
06.	Provision & mounting of Corridor Light with Night light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M & Drg no LW76091	09
07.	Provision & mounting of Doorway/Gangway light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	06
08.	Provision & Mounting of PACIL Assly. Make : KAVERI	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02
09.	Provision & Mounting of Toilet indication light, Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	01
10.	Provision & Mounting of Lavatory Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	02
11.	Provision of Razor socket for WC for 110/240V. Make: SSK	As per EDML047,ITEM-4	02

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Provision of Four Switch 6A/250V AC Complete With Steel Plate & Cover Frame. Make: SSK	As per Spec no.EDML043,CORR-1	04 nos
13.	Provision of Twin Switch 6A/250V,Complete With Steel Plate & Cover Frame. Make: SSK	As per Spec no.EDML044,REVNIL,CORR-1	03 nos
14.	Provision of Single Switch 16A,250V & 6/16A,250V.AC 6-Pin Shuttered Socket Compl. With Steel Plate & Cover Frame, Make: SSK	As per Spec no.EDML045,CORR-1	06 nos
15.	Provision of PA System for LHB EOG Rajdhani Rake . Make:- AHUJA Call box Make: BOSCH	As per Spec no.EDTS173,REV.A,AM-3	01 SET
16.	Jumper Cable with Connector for PA System. Make:- LEC	As per drg no.LW75206,Alt' c	01 SET
17.	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
18.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
19.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt-F	01
20.	Battery fuse box -ve Make : RICHMOND	As per LW 71002,Alt-F	01
21.	Emergency battery charger Make : EI Sr no: 4508/01/20 Make : EI Sr no: 4510/01/20	EDTS 163,Rev `c' corg.-2&3	02
22.	Provision of capacitor Bank Make : RICHMOND SL.no: 343956	As per EDML-130 Rev-1,Corr-1	01
23.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-1649 Make: VIMAL Sr no : VTC-R-3089-LHB-1682	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	02
24.	GPS PASSENGER INFORMATION SYSTEM FOR LHB AC-TEJAS COACHES. Make: ELECTRONIC EQUIPMENT. MBU SL No: 0219-235 1. LCD (NPP) SL.No: 0219-516 2. LCD (PP) SL.No : 0219-515	RDSO/SPEC/AC/0087-2008(REV-1) & RDSO/PE/SK/AC/0182-2015 & RDSO/PE/TP/AC/0026-2015,REV-0	01 SET

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-2	01 set
26.	Fitment of external supply sockets (125A/415V/IP67/5Pole with pilot contacts.) Make:- MV	As per drg no 1948036/UIV 4125-6.	02
27.	Feeder junction boxes. Make : INDORAIL	EDTS-328 REV-C	01 set
28.	Wheel set earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
29.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0120114762	As per M/s Sab Webco, M/s Knorr Bremse, M/s Escorts.	01 Set
30.	Provision of fitment of modular Integrated Pantry unit.	As per spec no EDTS 118,REV- E,AM-2	01 Set
31.	Hot Plate:		03
(a)	Make:- S.D.ENGG.		
(b)	Geysers Make: S.D.ENGG.		01
(c)	Hot Water Boilers, Make: S.D.ENGG.		02
(d)	Bottle Coolers, Make: S.D.ENGG.		01 set
(e)	Deep Freezers Make: S.D.ENGG.		01 set
(f)	Hot Case, Make: S.D.ENGG.		01 set
(g)	Chimneys, Make: S.D.ENGG.		03
h)	Oven Toaster Griller Make: BAJAJ		01
(i)	Refrigerator Make: SAMSUNG		01
(j)	Insect Killer Make: PROVIDED BY HINDUSTAN		02
(k)	Water Purifier(RO). Make: PROVIDED BY HINDUSTAN		01
32.	Provision of reliable wired Train bus in EOG/HOG coaches for hauling of trains by Loco's in Push-Pull mode. Make : SCHALT BAU/HARTING	RDSO spec. no. RDSO/PE/MS/AC/0080-2019 (Rev.-1)	01set

<p></p> <p>SSE/EL/QC आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL</p>	<p></p> <p>AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL</p>
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MCF/RBL