



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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

ROLLING STOCK CERTIFICATE
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1803

RLY	NWR	COACH NO	202089/C	DATE OF DISPATCH	12-Mar-20
Type	LWACCN	Sheli No.	93528	DISPATCH TO	Sr.DME/JP
				FUR.NO.	L3T-1409

1. Railway Board's Order No. : 2019/M(C)142/2, DATE-18.12.19
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. Special feature:

A- 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

B-Venturi arrangement in lavatory -NIL

5. 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	4250
4	CBC height/Buffer height from Rail level 1105 +0/-10	NPP/PP 1102/1102

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-OMAX AUTO 179
		Part NPP END	M/S-OMAX AUTO 174
		Complete	MCFRBL-V4U TECHIE 93528
2	Lav. side wall	M/S-ATHANCY ALD	LAV.1 LAV.2
		M/S-ATHANCY ALD	LAV.3 LAV.4
3	Side wall	LH SIDE	MCFRBL-V4U LKO 338
		RH SIDE	MCFRBL-V4U LKO 338
4	End wall	PP END	MCFRBL
		NPP END	MCFRBL
5	Roof	M/S-ECBT	92
6	Centre Buffer Coupler	M/S-FRONTIER	NPP/PP 223P2/191P2

7. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1	Full brake application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ² .	6 – 10 sec.	09 sec.
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied	OK	OK
2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec. after 06 Sec.	Brake must apply	OK

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	VIBGYOR	M/S-VIBGYOR	89/88	17-02-2020
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेडिओ, 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/2019-20/1803

RLY	N	W	R	Coach No.	2	0	2	0	8	9	/	C	-	DATE OF DISPATCH	1	2	0	3	2	0	2	0
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DISPATCH	Sr.DME/IP	Type	L	W	A	C	C	N	Shell No.	9	3	5	2	8	FUR .NO	L3T-1409
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191163				191164			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-51				VS-163			
Bolster no.	MCF/RBL-2034				MCF/RBL-2117			
Axle No	20V-0745 RWF		20V-936 RWF		20V-0722 RWF		19T-0540 RWF	
Wheel Dia	917.43	917.517	917.453	917.541	917.479	917.513	917.469	917.538
Wheel Disc No	TZ-10-18 01590-8W16	TZ-02-19 26189-9MJ8	TZ-04-19 37495-9OJ7	TZ-04-19 37709-9OE7	TZ-06-19 51327-9PI9	TZ-04-19 38494-9ON6	TZ-07-19 63820-9RR8	TZ-11-19 80974-9WF7
R.B. Nos.	11-19 42824	11-19 34128	11-19 41830	11-19 32719	12-19 35817	12-19 36116	12-19 36038	12-19 36051
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.	AVADH RAIL INFRA LTD. Sr.NO.12-19-3363	AVADH RAIL INFRA LTD. Sr.NO.12-19-3374	AVADH RAIL INFRA LTD. Sr.NO.12-19-3264	AVADH RAIL INFRA LTD. Sr.NO.12-19-3373

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	266827,282968	267067,080124
2.	Primary outer Spring	CMSTL	12-18-03A(335,120,762,131)	01-19-03A(419,941,6326,615)
3.	Primary Inner Spring	CMSTL	02-19-04A(091,10992,070,10958)	02-19-04A(104,106,2848,880)
4.	Primary Damper	IAI	12-19 (286125,286932,287384,287007)	12-19 (287029,288015,286199,286492)
5.	Secondary Damper	KNORR/IAI	07-19(19433,19411)	01-19(288242,238054)
6.	Lateral Damper	IAI	09-19 244784	09-19 274718
7.	Brake Cylinder	FAV	M19(774,712,714,754)	M19(661,763,412,088)
8.	Brake Caliper	FAV	N19(1077,1074,1075,1076)B	N19(865,863,862,864)B
9.	Brake Disc	FAV	01-20(727,624,342,229)D133561-300	01-20(648,310,870,871)D133561-300
10.	Ball Joint Control Arm	ARYAN/GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	GMT/ARYAN		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1912,1912	1912,1912
17.	Check Valve	ESCORT	1912	1912
18.	Anti roll bar Make	SARITA/EMSON		
19.	Roll Link make	SARITA+ARYAN/ SARITA+GMT		
20.	Fork make	SARITA/RNG		
21.	Control Arm Upper	RV/IRPL	171119-2,171119-2,161119-1,171119-1	1930L47,1930L49,2007A15,2010A29
22.	Control Arm Lower	RV/IRPL	201119-2,221119-4,221119-4,221119-4	2004A06,2004A06,1914L22,1916L27
23.	Phonic Wheel	FT/KEP	FT/KEP-715	FT/KEP-454

Signature of SSE/Bogie/QC



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RLY	NWR	COACH NO	202089/C	DATE OF DISPATCH	12-Mar-20
Type	LWACCN	Shell No.	93528	DISPATCH TO	Sr.DME/IP
				FUR.NO.	L3T-1409



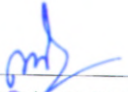

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAV.	A20177B
2	Distribution valve	M/S-FAV.	20015565B
3	Pull box	M/S-KBI	
4	FIBA	M/S-KBI	9820/29,9825/29
5	Foot Step	M/S-FABRICON PVT LTD KOLKATA	
6	Decoupling arrangement	M/S-PULSAR ENGG KOLKATA	
7	Floor board	M/S-SHRI RAM PANEL	
8	PVC	M/S-RESPONSIVE MUMBAI	
9	UIC Vestibule (PPE)	M/S-KRP PUNE	
10	UIC Vestibule (NPPE)	M/S-KRP PUNE	
11	Gangway bridge mounting (PPE)	M/s-MMW KXH	
12	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
13	Body Side Window	M/s- BIKRAN ENGG GZB	
14	Emergency Window	M/s- BIKRAN ENGG GZB	
15	Lavatory/hopper Window	M/s- AXYS SOLUTION DELHI	
16	Roof Ceiling	M/S-MSL MOHALI	
17	Door way /gang way ceiling	M/s- RADISH TECH ALIGERH	
18	Supply Air Duct	M/s- HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-HF VADODARA	
20	Partition panel	M/S-UNIVERSAL METAL NOIDA	
21	Partition pillar	M/S- SIDHU INTERNATIONAL	
22	AC Trough	M/S-MSL MOHALI	
23	Body Side Doors	M/S-JVR LDH	
24	Compartment Door (PPE)	M/S-HANSPAL COACH KXH	
25	Compartment Door (NPPE)	M/S-HANSPAL COACH KXH	
26	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
27	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
28	RMPU	M/S-INTEC ENGG.	
29	Bio Tank	M/S-OMAX AUTOS	
30	Pressurized flushing (ele. Pneu.)	M/S-IMI	
31	Auxiliary Water Tank	M/S-AMIT ENGG. MOHALI	
32	Under Slung Water Tank (2X685L)	M/S-OASIS	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG. MOHALI	
34	Health Faucet	M/S-ARHAM HI TECH MUMBAI	
35	Lotah Filler Tap	M/S-ARHAM HI TECH MUMBAI	
36	Bib cock	M/S-JAQUAR ALWAR	
37	Lavatory Modules	M/S-ARHAM HI TECH MUMBAI	
38	Lavatory Doors	M/S-ARHAM HI TECH MUMBAI	
39	Fire Extinguisher	M/S-SAFE PRO	3325/3366
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
41	Seat & Berth	M/S-OVPL MUMBAI	
42	Light Luggage Rack	M/S-RAIL FAB KXH	
43	Snack Table	M/S-DLJM NOIDA	
44	Venturi grill	NIL	
45	RFID	NIL	

Deema

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वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेडिओका 0, रायबरेली (लाहगंज)

		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1803					
RLY	NWR	COACH NO	202089/C	DATE OF DISPATCH 12-Mar-20	
Type	LWACCN	Shell No.	93528	DISPATCH TO	Sr.DME/JP
				FUR.NO.	L3T-1409
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	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.					
 SSE/OC/MCF/RBL वरिष्ठ अनुष्ठानिक अभियंता गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)		 SME/AME/QC/MCF/RBL वरिष्ठ यंत्रिक अभियंता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli		 Dy.CQM/MCF/RBL वरिष्ठ गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES											
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES											
TYPE COACH		LWACCN		SHELL/COACH NO		202089/C					
RAILWAY		NWR		ELECT.FIT DATE		06-03-2020		FUR.NO		3T-1409	
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				19.45 Cub mtr/min				OK	
3.2		Return Air				74.83 Cub mtr/min				OK	
3.3		Exhaust Air				6.38 Cub mtr/min				OK	
3.4		Conditioned Air				163.46 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								----	
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
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG HOG AC COACHES

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 COMPOSITE PANTRY	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 TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
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 COACHES

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 (NPP side): 19K 1486 T2 Sr no of RMPU (PP side) : 19K 1482 T2 Sr no of Microprocessor: 19.10.2917-SIDWAL	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-19-09-0017	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 20/01/0075 Sr no.1 : 19110527 Sr no.2 : 19110425 Sr no.CPA : 2020/01/0097-DR AUTO	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 : EYYANI	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: ENSAVE	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : A PAUL	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K.LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : WAVES	LW 76005,Alt-e	02

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01 SET
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	1 SET
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	18
16.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	54
17.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	01 set
18.	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 : 11/19	EDTS 129,Rev nil	01 set
19.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : AECO	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : AECO	As per LW 71002,Alt-F	01
22.	Reading light for longitudinal berth (LHS) Make: AKG/DEVINTEC	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	9


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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: DEVINTEC	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: WAVES	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DEVINTEC	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Regulated battery charger(RBC CUM EBC) Make : SIGNOTRON Sr no: 01201016	RDSO/PE/SPEC/AC/0183 (REV '1')	01
27.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT5L 19657	As Per EDTS-366,REV-NIL & CC-71510	01
28.	Provision of capacitor Bank Make : RICHMOND ENTERPRISES SL.no : 344046	As per EDML-130 Rev-1,Corr-1	01
29.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2933	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
30.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
31.	Feeder junction boxes. Make : MV ELECTRO	EDTS-328 REV-C	01 set
32.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
33.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : I 1240	M/s : FAIVELEY	01 set
34.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : N/F	As per EDTS -139, Rev- E ,Sec II.	00

SSE/EL/QC

AWM(ELECT.)/MCF/RBL
SEE(P)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

सं कार्य प्रबन्धक/विद्युत
आपरेटिंगका/रायबरेली
A.W.M./Electrical/MCF/RBL

