



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/2019-20/493

RLY	C	R	-	-	Coach No.	1	9	5	8	7	0	/	C	DATE OF DISPATCH	2	4	-	0	7	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	W	Shell No.	9	3	1	2	7	FUR.NO.	L2T(T)-64
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- Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
- Special feature**

A- Due to fitment of L3T roof in L2T shell, more space available in transverse side.

B- Extend linen room to accommodate the space NPP end (width 270 mm)

C- Height (from floor level to ceiling) raised from 2250mm to 2510mm.

C1- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.

C2- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.

C3- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.

D- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)

E- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no.

MC/LHB/Brake, Dated 27.09.2018

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

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- RFPL	08
		NPP END M/S- M.TECH	374
		Complete MCF/RBL	93127
2.	Lav. side wall	M/S- RAIL FAB, KXH	LAV.1 - LAV.2 -
		M/S- RAIL FAB, KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	30/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	30/02
4.	End wall	PP END M/S-OMAX REWARI	---
		NPP END M/S-P.D,STEEL PACHKULA	---
5.	Roof	M/S -JSL	08
6.	Centre Buffer Coupler	M/S- ESCORTS LTD.	PP END 9546 NPP END 9536

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	- Reduce pressure of BP from 5.0 to 3.4 kg/cm². - 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 @ 0.1 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	M/S -AXALTA	M/S-EMPRISE	95/94	10.06.19
2.	Insulation	Satisfactory				

[Signature]
SSE/QC/MCF/RBL

गणवत्ता विभाग



MODERN COACH FACTORY, RAEBARELI

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190944				190943			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-370				WIL-338			
Bolster no.	SCI-61				AMIT-292			
Axle No	19 P - 1896 RWF		19 P - 1822 RWF		19 N-9142 RWF		19 N- 8570 RWF	
Wheel Dia.	917.706	917.719	917.706	917.719	917.676	917.751	917.715	917.75
Wheel Disc No	TZ 04-19 40701-9OE3	TZ 04-19 36041-9OF0	TZ 04-19 34877-9MJ3	TZ 04-19 37587-9OE7	TZ 04-19 35248-9OH9	TZ 04-19 35245-9OH9	TZ 03-19 30319-9MH1	TZ 04-19 36532-9MT7
R.B. Nos.	03-19 36192	02-19 02479	03-19 36479	02-19 05111	02-19 03150	02-19 03589	02-19 04892	02-19 36209
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.10-18 728	AVADH RAIL INFRA LTD Sr.NO.10-18 917	AVADH RAIL INFRA LTD Sr.NO.10-18 957	AVADH RAIL INFRA LTD Sr.NO.10-18 951

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	238830,238915	239333,238842
2.	Primary outer Spring	CMFSK	03-19 7411-545(393,354,41,300)	03-19 7411-454(209,120,464,119)
3.	Primary Inner Spring	CMAFJ	01-19 7143-(187,174,195,176)	01-19 7143-(177,169,160,204)
4.	Primary Damper	KONI	01-19 (03417,01376,03461,03469)	01-19 (00608,03405,03442,01380)
5.	Secondary Damper	KNORR	02-19 (16887,16732)	02-19 (16930,16779)
6.	Lateral Damper	GABRIEL/ KNORR	11-18 966	11-18 967
7.	Brake Cylinder	KBI	B(3925,3153,3145,3972)K-29	B(3888,3144,5618,3024)K-29
8.	Brake Caliper	KBI	B(1601,1594,1587,1505) -29	B(1528,1596,1275,1468) -29
9.	Brake Disc	FAV	10-18 (1539,1538)09-18(704,705)D-133561-300-1	09-18(1181,607,1184,714)D-133561-300-1
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	06-19 A 10690,13-19 B 1786	13-19 B 1676,06-19 B 1824
17.	Check Valve	KNORR	02-2019 16499	03-2019 17659
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR, SARITA/PPI		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140319-3,160319-2,170319-2,140319-2	150319-3,140319-3,160319-2,140319-2
22.	Control Arm Lower	RVE	190319-2,190319-4,200319-2,200319-2	RVE,190319-3,190319-4,200319-2
23.	Phonic Wheel	KNORR	K-03-19	K-03-19

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- KBI, FARIDABAD	2658 17/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 D 7584
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-5359/29 NPP-5319/29
5.	Foot Step	M/s- SUPER SPARKS PVT. LTD. FARIDABAD	
6.	D-coupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/S- SHRI RAM PNL PANJAB	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
10.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
11.	Gangway bridge mounting (PPE)	M/S- RAKASH INON STORE (RIS)KXH	
12.	Gangway bridge mounting (NPPE)	M/S- RAKASH INON STORE (RIS)KXH	
13.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Hopper Window	M/S- AIKON TECHNOLOGIES SALAN	
16.	Roof Ceiling	M/s- HINDUSTAN FIBER GLASS, VADODRA	
17.	Door way /gang way ceiling	M/S- J,R INDS, JALANDHAR	
18.	Supply Air Duct	M/S- HANSPAL TRADERS KXH	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- ATHONEY ENGG.ALD	
21.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
22.	AC Trough	M/s-MOBILITY SOLUTION LTD.MOHALI	
23.	Body Side Doors	M/s- JVR INDS. LUDHIYANA	
24.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
29.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
32.	Health Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA	
33.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA	
34.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
35.	Lavatory Modules 1,2,3	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Lavatory Modules 4	M/s- VISHRAM PREMJEET PATEL & CO. KOLKATA	
37.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
38.	Fire Extinguisher	M/S-SAFETY PLUS ENGG.	PP-2033, NPP-2051
39.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND. LLJ	
40.	Light Luggage Rack	M/S- LUCKY ENTT GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)



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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, 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 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 वरिष्ठ अभियंता गुणवत्ता गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियंता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy. Chief Quality Manager/Shell उप-प्रमुख गुणवत्ता प्रबन्धक/शेल आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
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DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	LWACCW	SHELL/COACH NO	195870/C
RAILWAY	CR	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	19.88 Cub mtr/min	OK
3.2	Return Air	67.16 Cub mtr/min	OK
3.3	Exhaust Air	6.94 Cub mtr/min	OK
3.4	Conditioned Air	163.84 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 : 22.3°C NPP Side : 21.9°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
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FOR ELECTRICAL ITEMS

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ELECTRICAL TEST CERTIFICATE FOR LHB EOG 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	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU 1(NPP side) 3429 C Sr no of RMPU 2(PP side): 3424 C Sr no of Microprocessor: AE 19.03.301	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-888	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA: 2019/05/67 Sr no.1: 19040231 Sr no.2: 19040181 Srno.CPA: 2019/06/245-DR AUTO	As per spec EDTS 186,Rev-a, Am-2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: VGS	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: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04

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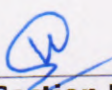
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: DR AUTO	LW 76005,Alt-e	02
16.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
17.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
18.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
21.	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.	09
22.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am-1,2&3	01 set


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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	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 : 08/18	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : RADIANT	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
27.	Emergency battery charger Make : MB & COMPANY Sr no: 201906109 Make : MB & COMPANY Sr no: 201906114	EDTS 163,Rev `c' corg.-2&3	02
28.	5KVA Transformer Make: WAVES SL.no : WLDT 5E 19520	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: KONTACT SL.no : KT-796	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-731	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e' Am-2	02 sets
32.	Feeder junction boxes. Make : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0119071147	M/s : KNORR	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	00

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आनरेडि०का० / लालगंज / रायबरेली

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

AWM(ELECT.)/MCF/RBL
SEE(P)/MCF/RBLस० कार्य प्रबन्धक / विद्युत
आनरेडि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL