



**Modern Coach Factory Raebareilly**  
**आधुनिक रेल डिब्बा कारखाना, रायबरेली**

DOC NO.: MCF/RBL/QMF 8002/  
LDSL REV NO: 00  
DATE: 29.01.2019

ROLLING STOCK CERTIFICATE  
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/1302

RLY	WR	COACH NO	197258/C			DATE OF DISPATCH	21.12.19
Type	LDSL	Shell No.	89005	DISPATCH TO	Sr.DME/BCT	FUR.NO.	SLR-05
1. Railway Board's Order No. : 2018/M(C)/142/2 Dated: - 06-09-2018							
2. Tare Weight of Coach : 38.19 Tonnes							
3. Carrying Capacity : (a) Seating:36 (b) Sleeping: 02 (c) Luggage: 4 tones							
4. Special feature:							
S NO	DESCRIPTION					MAKE/SUPPLIER	
A	Provision of Dog Box-01 no.					M/s- DGFRP ACME INDIA , NDLS	
B	Luggage capacity-04 Tones.					M/S- RAIL FAB, KXH	
C	Lavatory for Disable-01 no.					SHOP MADE	
D	Capacity of Fuel Tank-1540 Liter.					M/S- SHIVALIK FASTNERS PVT.LTD. MOHA	
E	Seating capacity-30 nos. and 06 nos. for Disable					M/s-DURABLE IND LKO	
F	Under slung 500 KVA DG set with Alternator					M/S- CUMMINS & CG (Alternator)	
G	Stretch Room-01 no.					SHOP MADE	
H	Water capacity- for Guard Room-600 liter and for Disable passenger area-780 liter					M/s-FLASH FORGE & RAIL FAB KXH	
I- 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							
5. SHELL LEADING DIMENSIONS:							

**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	NPP/PP 1097/1102

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-DTL PUNE
		Part NPP END	M/S-DTL PUNE
		Complete	M/S-DTL PUNE
2	Lav. side wall	M/S-DTL PUNE	LAV.1
		M/S-DTL PUNE	LAV.2
		M/S-DTL PUNE	LAV.3
		M/S-DTL PUNE	LAV.4
3	Side wall	LH SIDE	M/S-DTL PUNE
		RH SIDE	M/S-DTL PUNE
		PP END	M/S-RSM MOHALI
		NPP END	M/S-RAIL TECH KXH
5	Roof	M/S-DTL PUNE	4
6	Centre Buffer Coupler	M/S-SANROK	NPP/PP 1431/1413
7	Buffer	M/S-RANEKA IND. DHAR	NPP/PP 89005 N.A

**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 <sup>2</sup> .	6 - 10 sec.	7 sec
		Max. pressure in BC	3.0 ±0.15 kg/cm <sup>2</sup> .	3.0 kg/cm <sup>2</sup>
		All Brake are applied	OK	OK
		Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
2	Insensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 06 Sec.	Brake must apply	OK
3	Sensitivity	1.Apply hand brake	1.Hand Bk. Indicator should be red	OK
4	Handbrake(Parking brake)for generator car	2.Release hand brake	2. Hand Bk. indicator should be green	

**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	90/89	30.03.19
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

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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/2019-20/1302

RLY	W	R	-	Coach No.	1	9	7	2	5	8	/	C	-	DATE OF DISPATCH	2	1	1	2	2	0	1	9
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DISPATCH	Sr.DME/BCT	Type	L	D	S	L	R	-	Shell No.	8	9	0	0	5	FUR.NO	LDSL-05
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## 9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190168				190167			
Bogie Type	FIAT				FIAT			
Frame no.	SCI/FM-2204				RBL/LS5-461			
Bolster no.	AMIT-50				AMIT-39			
Axle No	19 L - 5797 RWF		19 L - 6091 RWF		19 L - 5223 RWF		19 L - 8472 RWF	
Wheel Dia	917.665	917.687	917.61	917.726	917.708	917.725	917.678	917.694
Wheel Disc No	TZ 11-18 05648-8WT7	TZ 10-18 01481-8WL3	TZ 10-18 01482-8WL3	TZ 11-18 05647-8WN5	TZ 11-18 05644-8WM5	TZ 11-18 05366-8WM6	TZ 11-18 03019-8WJ8	TZ 11-18 05365-8WM6
R.B. Nos.	04-18 24860	05-18 39126	04-18 24894	05-18 38957	05-18 39780	05-18 28054	05-18 38970	05-18 27580
CT R B Make	SKF		SKF		SKF		SKF	

## 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. 18-12 2809	TAYAL&CO. 18-12 2828	TAYAL&CO. 18-12 2985	TAYAL&CO. 18-12 2918

## 11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	17236,17235	17244,17224
2.	Primary outer Spring	CMSTL/ CMFSK	CMSTL (01-19 F07-N78-05A-161,01-19F07-N78-05A-18877) CMFSK(10-15F07-R50-07A-1917, 10-15F07-R50-07A-1917)	CMSTL 01-19 F07-N78-07A- (201,2270,1763,1489)
3.	Primary Inner Spring	CMRSK	11-18 F06N78-06A(3845,3188,8800,3856)	11-18 F06N78-06A (2297,2178,3360,2878)
4.	Primary Damper	IAI	01-19 (236394,236559,237072,236443)	01-19 (236116,236173,236635,236162)
5.	Secondary Damper	GABRIEL	03-19 (1124,1020)	03-19 (1048,1016)
6.	Lateral Damper	IAI	11-18 229330	11-18 229473
7.	Brake Cylinder	KBI	B(1310,0188,0174,1312)K29	B(1314,1315) -K29, N (-0164,165)K35
B19-	Brake Caliper	KBI	B(1528,0769,0770,1527)-29	B(1526,1525) -K29, N (-3501,3500)K35
9.	Brake Disc	FAV	12-19 6884,01-19(581,580,579)D133561-300	01-19(366,365,368,367)D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	MGN		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	ESCORT	1812,1812	
17.	Check Valve	ESCORT	1812	1811,1812,
18.	Anti roll bar Make	EMSON		1812
19.	Roll Link make	SARITA/ AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA/RVE	03-18 380,02-18 050,0015,12-18 316	
22.	Control Arm Lower	NIPHA/RVE	11-18 0364,12-18 0188,12-18 210,11-18 084	051218-3,101218-1,RVE,210119-2
23.	Phonic Wheel	KBI	K 02-19	150119-2,061218-3,RVE,RVE

Signature of SSE/Bogie/QC

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**13. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-KBI	
2	Distribution valve	M/S-KBI	2019080030
3	Pull box	M/S-KBI	2019B6867
4	Hand Brake Equipment	M/S-VANNE PRECISION	
5	FIBA	M/S-KBI	
6	Foot Step	M/S-SSPL FARIDABAD	4941/29,5034/29
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-RESPONSIVE GZB	
9	Lavatory Inlay disable & passengers & Guard room	M/S-SEEMA IND.BHOPAL	
10	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
11	Gangway bridge mounting (PPE)	M/S-RAKESH IRON & STEEL KXH	
12	AL. Chequer Plate/Sheet	M/S-RAIL TECH KXH	
13	Body Side Window	M/S-AGF KOLKATA	
15	Emergency Window	M/S-AGF KOLKATA	
14	Lavatory/hopper Window	M/S-AXSYS SOLUTION	
16	Roof Ceiling in disable & passengers room	M/S-ACME INDIA NDLS (DGFRE)	
17	Doorway/Gangway /luggage room Ceiling	M/S-ACME INDIA NDLS (DGFRE)	
18	FRP panel for dog box	M/S-ACME INDIA NDLS (DGFRP)	
19	Side Panel	M/S-ACME INDIA NDLS (DGFRP)	
20	Partition panel	M/S-ACME INDIA NDLS (DGFRP)	
21	Luggage Sliding Door	M/S-GURU NANAK IND.	
22	Disable comptt .door RH & LH	M/S-MOHAN RAIL KXH	
23	Passenger comptt .door RH& LH	M/S-JVR LDH	
25	Guard room door RH& LH	M/S-JVR LDH	
26	Control room Door	M/S-AIR FLOW CHENNAI	
27	Dog box sliding door	M/S-RCF KXH	
29	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
30	Bio Tank (01 No Big)	M/S-FLASH FORGE LTD	
	Bio Tank (02 No small)	M/S-RAIL FAB KXH	
31	Water Tank	M/S-RAIL FAB KXH	
32	Water Tank in guard room 300L	M/S-AMIT ENGG.MOHALI	
33	Fuel Tank	M/S-SHIVALIK FAST MOHALI	
34	Health Faucet	M/S-AUD PVT.LTD	
35	Lotah Filler Tap	M/S-AUD PVT.LTD	
36	Bib cock	M/S-AGMECO PVT.LTD.	
37	Lavatory Module	N/A	
38	Lavatory Doors(disable & passengers & Guard room	M/S-JR JUC,KALSI LDH,MEENA FIBRE	
39	Fire Extinguisher	M/S-AMTEX SAFTEY SYSTEM	
40	Seat & Berth(disable & Panel & Guard room)	M/S-DURABLE IND LKO	14479/15060
41	Luggage Rack	M/S-RAIL TECH KXH	
42	Light Luggage Rack	M/S-RAIL TECH KXH	
43	RFID	N/A	

*SSE*  
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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 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 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 qualityrcfrbl@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/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy. Chief Quality Manager

वरिष्ठ अभियंता

गुणवत्ता विभाग

रेडिओ, रायबरेली (लालगंज)

वरिष्ठ यंत्रिक अभियंता/गुणवत्ता

Modern Coach Factory Raebareilly

जोगिन्दर सिंह

Dy. Chief Quality Manager

Modern Coach Factory, Raebareilly





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 UNDER SLUNG POWER CAR****ELECTRICAL TEST CERTIFICATE LHB UNDER SLUNG POWER CAR**

<b>TYPE COACH</b>	<b>LDCLR</b>	<b>SHELL/COACH NO</b>	<b>197258/C</b>
<b>RAILWAY</b>	<b>WR</b>	<b>ELECT.FIT DATE</b>	<b>17-12-2019</b>
		<b>FUR.NO</b>	<b>LDCLR-05</b>

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

Sr no	Description of test	Remarks
1.	LIGHTS,LAP CHARGING SOCKETS	OK
2.	RAILWAY CARRIAGE FAN	OK
3.	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
4.	WORKING OF 9 KVA TRANSFORMER	OK
5.	WORKING OF 60KVA TRANSFORMERS	OK
6.	WORKING OF BRACKET FANS	OK
7.	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
8.	WORKING OF REGULATED BATTERY CHARGER	OK
9.	WORKING OF STATIC BATTERY CHARGERS	OK
10.	SAFETIES :	
10.1	CONTROL CIRCUIT	OK
10.2	POWER CIRCUIT	OK
10.3	ALTERNATER EARTH LEAKAGE RELAY	OK
10.4	FEEDER EARTH LEAKAGE RELAY	OK
10.5	UNDER VOLTAGE RELAY	OK
10.6	OVER VOLTAGE RELAY	OK
10.7	BUS COUPLER	OK
10.8	FEEDER CONTACTOR	OK
10.9	FUSES AND THEIR RATINGS	OK

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

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: <b>IMT CABLES</b>	IS 6680/92, First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	<b>12</b>
02.	Provision of Cabin, Corridor, doorway and Gangway Lights, luggage room. Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL-0091(REV-1) TYPE B-1	<b>21</b>
03.	Fitment of Cabin, Corridor, doorway and Gangway Lights.	As per drg no CC-76453	
04.	Provision of Side Light Fitting 110V DC, 25 W. Make: <b>DR AUTO</b>	RDSO /SKEL/4094 with RCF alt a	<b>02</b>
05.	Provision & mounting of lavatory light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	<b>02</b>
06.	Provision & Mounting of PACIL Assly. Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	<b>02</b>
07.	Provision of Cable Jacket ,Size 06Nominal width 25mm ,Length - 1000mm	As per spec no. EDTS 0138, Item 09	
08.	Fitment of Switch Plate Assly (Cabin Side) Make: <b>SSK</b>	EDML 127,Rev-1 & DRG NO CC 4248 Alt-a	<b>05</b>
09.	Fitment of Switch Plate Assly (Corridor Side) Make: <b>SSK</b>	EDML 127,Rev-1 & DRG NO CC 4249 Alt-a	<b>04</b>
10.	Fitment of Accidental Emergency Light system (AEL) Make: <b>A PAUL</b>	EDTS 151, Rev 'c'.	<b>02</b>
11.	Power and Control Panel for LHB Power car Make: <b>RAMAYA ELECTRO-GEAR</b> Sr no : <b>1812-124-01</b>	As per spec no. Power & control SBC-S2 (FOR LSRD 1 X 500 KVA Power with HOG compliance) -01 no.	<b>01</b>

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ROLLING STOCK CERTIFICATE OF LHB UNDER SLUNG POWER CAR

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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Switch board cabinet Make: <b>TRINITRON</b> Sr no : <b>18/11/TCS/RBL/3428/333/0003</b>	As per spec no. EDTS-333,REV.-O,COR-1 & 2.	<b>01</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>AMARA RAJA</b> Lug date : <b>11/18</b>	EDTS 129,Rev nil	<b>01 set</b>
14.	SET OF BATTERY FOR DA (A ) (A)Make: <b>CELTEK</b> Lug date: <b>09/19</b>		<b>01 sets</b>
15.	Battery box for LHB coaches. Make : <b>NOT VISIABLE</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>AECO</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: <b>VTC-3089-LHB-6242</b>	EDTS 076, Rev-0.	<b>01</b>
19.	Provision of 9 KVA TFR 750/415/190V, 03Ø AC. Make: <b>VIMAL</b> Sr.no.: <b>VTC-3089-LHB-2487</b>	RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	<b>01</b>
20.	ZS coupling 500A/750V/03Ph/50hz. Make : <b>S.INTERNATIONAL/PRIME ELECTRICAL</b>	EDTS 105,Rev`e' Am-2	<b>01 sets</b>
21.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>1 Set</b>
22.	Wheel set earthling equipment. Make : <b>DARSHAN ENTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02</b>

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## ROLLING STOCK CERTIFICATE OF LHB POWER CAR/LDSL

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> Sr no : <b>0118430600</b>	MDTS 077 REV-2	<b>01 set</b>
24.	Provision 500KVA/336 KW,750V/03Ph UNDER SLUNG DIESEL ALTERNATOR set, complete with Power & Control panel.	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.- 1)	<b>01</b>
24.a1	Sr no of Alternator Make: <b>C.G</b> Sr no : <b>RJAG 1145</b>	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.- 1)	<b>01</b>
24.a2	Sr no of Diesel Engine Make: <b>CUMMINS</b> Sr no : <b>25439362</b>	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.- 1)	<b>01</b>
24.a3	Roof mounted Radiator assembly complete with water level indicator with tripping mechanism,radiator fans,motor frame work,fan housing,AVMs. Make: <b>BANCO</b> Sr. no.: <b>18/07/23</b>	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.- 1)	<b>01 Set</b>
24.a4	Monoblock pump for filling coolant in to radiator tank.		<b>01</b>
24.a5	CAC UNIT Make: <b>BANCO</b> Sr. no. <b>18/06/14</b>	As per spec no. RDSO/PE/SPEC/AC/0103-2008(REV.- 1)	<b>01Set</b>
25.	24 V Starter Battery Charger Make: <b>BHASIN</b> Sr no: <b>09180449</b>	EDTS 116,Rev nil	<b>01</b>
26.	4.5 KW Regulated battery charger Make: <b>IC</b> Sr no: <b>10/18/0047</b>	As per RDSO spec RDSO/PE/SPEC/AC/0183	<b>01</b>
27.	Provision of Tail light switch 2P/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>
वरिष्ठ अनुभाग अभियन्ता		सं कार्य प्रबन्धक / विद्युत	
मुख्य निरीक्षण		AWM(ELECT.)/MCF/RBL	
संकाय / लालगंज / रायबरेली		SEE(P)/MCF/RBL	
Eled-QCM.C.F./L/RBL			