



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/2019-20/1015

RLY	N	W	R	Coach No.	1	9	6	9	2	2	/	C	DATE OF DISPATCH	3	1	-	1	0	-	1	9
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DISPATCH TO	Sr.DME/C&W/AII	Type	L	W	A	C	C	N	Shell No.	9	3	2	6	7	FUR.NO.	L3T-1315
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -13 -06-2019

2. Tare Weight of Coach : 45.6 Tonnes

3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. **Special feature:** 1- 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

2- RFID(Radio frequency identification) fitted for traceability of coach

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	1) 1098 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/s-DTL 07
		Complete	NPP END M/s-DTL 07
			M/s-DTL 07
2.	Lav. side wall	M/s-RAIL TECH KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL TECH KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	65/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	65/02
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-RAIL TECH KXH	---
5.	Roof	M/s-DTL	187
6.	Centre Buffer Coupler	M/s-SANROK ENT	PP END 14006 NPP END 14014

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/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	08 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-GS INDS	(SUPPLY & APPLY)	90/88	03.10.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, रायबरेली (लालमंजूर)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DISPATCH	Sr.DME/C&W/All	Type	L	W	A	C	C	N	Shell No.	9	3	2	6	7	FUR.NO	L3T-1315
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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	191243				191244			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-397				WIL-431			
Bolster no.	MCF/RBL/LS5-935				MCF/RBL/LS5-947			
Axle No	19 R - 6664 RWF		19 R - 0754 RWF		19 S - 0685 RWF		19 R - 6330 RWF	
Wheel Dia	917.263	917.314	917.296	917.245	917.34	917.349	917.302	917.375
Wheel Disc No	TZ 04-19 38626-9QF9	TZ 04-19 40658-90E5	TZ 06-19 60923-9QJ9	TZ 06-19 60922-9QJ9	TZ 06-19 60925-9QJ9	TZ 06-19 54695-9QH9	TZ 03-19 31689-90D9	TZ 04-19 38625-90F5
R.B. Nos.	09-18 23157	09-18 22990	09-18 22468	09-18 21309	09-18 21768	09-18 21305	09-18 23320	09-18 23117
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. Sr.NO. 19-08 3202	TAYAL&CO. Sr.NO. 19-08 2859	TAYAL&CO. Sr.NO. 19-08 3191	TAYAL&CO. Sr.NO. 19-08 3246

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	17273,16594	16581,16733
2.	Primary outer Spring	CMFSK	05-19 1056-002(410,430,409,489)	05-19 1056-002(311,419,505,515)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(1750,1905,1721,2129)	05-19 7143-559(2019,1651,1820,2121)
4.	Primary Damper	KONIC	03-19 (08582,06562,08573,06642)	03-19 (03353,08179,08107,08114)
5.	Secondary Damper	KONIC	04-19 (05723,06078)	04-19 (03670,03841)
6.	Lateral Damper	KONIC/GABRIEL	03-19 00192	11-18 1386
7.	Brake Cylinder	FAV	E19(079,824,825,078),	E19-863, F19 (-863,201,116,103)
8.	Brake Caliper	FAV	F19(915,913,914,916)B	F19(900,898,897,899)B
9.	Brake Disc	KBI	24185222 0022-19/19,24178933 0024-11/19 24178934 0011-11/19,24178934 0010-11/19	24173458 0038-09/19,24185212 0010-14/19 24173458 0046-09/16,24173459 0038-09/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	BASANT/AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	19 B 10653,19 A 10536	19 A 10507,19 A 10533
17.	Check Valve	KNORR	05-19 16336	02-19 19601
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	280619-2,280619-2,210619-2,290619-2	200619-2,280619-2,270619-2,280619-2
22.	Control Arm Lower	RVE	280619-2,280619-2,220619-2,RVE	220619-2,220619-2,040619-2,040619-2
23.	Phonic Wheel	FAV	FT/KEP-1	FT/KEP-1

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	3667 37/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 J 8991
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	7700/29 7663/29
5.	Foot Step	M/s-HITECH INERAVANTURE PVT LTD RBL	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S -RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S- KIRAN RUBBER PRODUCT PUNE	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/S-RELIABLE SAFETY GLASS LTD, NOIDA	
14.	Emergency Window	M/S-RELIABLE SAFETY GLASS LTD, NOIDA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
17.	Door way /gang way ceiling	M/s-GANDHI SAFE & ALLIED INDS,JALNDHAR	
18.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- SIDHU INTERNATIONAL.CO. KXH	
21.	Side Wall panel	M/S- ANKUR FIBER,KXH	
22.	AC Trough	M/s-MEENA FIBER GLASS PANDICHERI	
23.	Body Side Doors 1,3	M/s- JVR INDS, LUDHIYANA	
24.	Body Side Doors 2,4	M/S- SUKATA PVT.LTD. PKL	
25.	Compartment Door (PPE)	M/S- HANSPAL TRADERS, KXH	
26.	Compartment Door (NPPE)	M/S- HANSPAL TRADERS, KXH	
27.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
28.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
29.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
30.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (2X685L)	M/S- SHIVALIC FASTNERS PVT.LTD.MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
33.	Health Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
35.	Bib cock	M/s- JAQUAR PVT. LTD. ALWAR	
36.	Lavatory Modules	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
37.	Lavatory Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
38.	Fire Extinguisher PP	M/s-SAFETY PLUS	3195
39.	Fire Extinguisher NPP	M/S-CHIRAG INDS	1003
40.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTERPRISES	
41.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
42.	Light Luggage Rack	M/S RAIL FAB. KAPURTHALA	
43.	Snack Table	M/s- DLJM INDUS. NOIDA	
44.	RFID	M/s-TECH SOLUTION GURGAON	Sr.-105729,105730

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

रेडिओका, रायबरेली (लागूगंज)



आधुनिक रेल डिब्बा कारखाना, रायबरेली



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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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/OC/MCF/RBL	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता
गुणवत्ता विभाग
रेडिंक ००, रायबरेली (लालगंज)

वरिष्ठ अनुष्ठानिक अभियंता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

जोगिन्दर सिंह
Joginder Singh
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH		LWACCN		SHELL/COACH NO		196922 /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			19.96 Cub mtr/min		OK	
3.2	Return Air			65.00 Cub mtr/min		OK	
3.3	Exhaust Air			7.04 Cub mtr/min		OK	
3.4	Conditioned Air			167.16 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 PP Side :21.6 ⁰ C NPP Side :21.0 ⁰ 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

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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	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 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 (NPP side): 4114 J Sr no of RMPU (PP side) : 4111 J Sr no of Microprocessor: AE 19.05.432	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-852	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/10/0108 Sr no.1 : 5678 Sr no.2 : 5610 Sr no.CPA : 2019/10/110-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 : ECOFIT	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	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: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : DR AUTO	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
11.	Passenger alarm coach indication light Make : KAVERI	LW 76005,Alt-e	02

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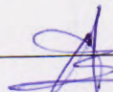
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 : 07/19	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 : INDORAIL	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt-F	01
22.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	9


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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Regulated battery charger(RBC CUM EBC) Make : PI ENGG. Sr no: PI-1905432	RDSO/PE/SPEC/AC/0183 (REV '1')	01
27.	Provision of 5KVA TFR Make : BHASIN SL.no : 09189912	As Per EDTS-366,REV-NIL & CC-71510	01
28.	Provision of capacitor Bank Make : RICHMOND ENTERPRISES SL.no : 341727	As per EDML-130 Rev-1,Corr-1	01
29.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2118	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
30.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
31.	Feeder junction boxes. Make : SUPER	EDTS-328 REV-C	01 set
32.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
33.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119212040	M/s : KNORR	01 set
34.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00

 SSE/EL/QC	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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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

