



	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/2019-20/1299			

RLY	NWR	COACH NO	197865/C	DATE OF DISPATCH	21/12/2019
Type	LWACCN	Shell No.	93309	DISPATCH TO	Sr.DME/C&W/AII
				FUR.NO.	L3T-1366

- Railway Board's Order No. : 2019/M@142/2, DATE-21-11-2019
- Tare Weight of Coach : 45.6 Tonnes
- 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

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 1097/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-MTF	619
		Part NPP END M/S-MTF	698
		Complete MCF/RBL/AIRCON	93309
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 M/S-KANSAL MOHALI	14
		RH SIDE M/S-KANSAL MOHALI	14
4	End wall	PP END M/S-RAIL TECH KXH	
		NPP END M/S-RAIL TECH KXH	
5	Roof	M/S-DTL	205
6	Centre Buffer Coupler	M/S-ESCORT	PP/NPP 1844/1871

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.	08 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	BERGER	M/S-BERGER	90/89	25/11/2019
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL
 गुणवत्ता विभाग
 रेडिओका, 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/2019-20/1299

RLY	N	W	R	Coach No.	1	9	7	8	6	5	/	C	-	DATE OF DISPATCH	2	1	1	2	2	0	1	9
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DISPATCH	Sr.DME/C&W/All	Type	L	W	A	C	C	N	Shell No.	9	3	4	0	9	FUR .NO	L3T-1366
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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	192224				192223			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1295				ECBT-1496			
Bolster no.	RBL-2905				RBL-2815			
Axle No	19 L - 5041 RWF		19 L - 5148 RWF		19 L - 5271 RWF		19 L - 5027 RWF	
Wheel Dia	917.512	917.465	917.524	917.476	917.52	917.56	917.441	917.392
Wheel Disc No	TZ-07-19 61887-9RP7	TZ-08-19 75343-9RK9	TZ-07-19 67831-9RQ3	TZ-06-19 55468-9PK0	TZ-07-19 66747-9RI7	TZ-07-19 67830-9RQ3	TZ-08-19 75459-9SL3	TZ-07-19 62723-9RL5
R.B. Nos.	09-18 21665	09-18 23212	09-18 22230	09-18 23203	09-18 22248	09-18 21952	09-18 21587	09-18 22158
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMFSK10-19-8836-091-27	CMFSK05-19-9513-007-11	CMFSK10-18-8836-091-1	CMFSK05-19-9513-027-471	CMFSK10-19-8836-091-16	CMFSK05-19-9513-007-7	CMFSK10-19-8836-091-15	CMFSK05-19-9519-009-105
Compressed Ht. at Tested Load	515	468	515	468	513.5	467	515	463
Alignment deviation (mm)	12	7	13	10	11	9	11	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18670,15936	15932,18676
2.	Primary outer Spring	CMSTL	02-19 F03-N88-03A (4212,4643,4530,4560)	02-19 F03-N88-03A (4205,4687,4645,4342)
3.	Primary Inner Spring	CMFSK	05-19 7143-559 (2008,1487,1459,1760)	05-19 7143-559 (2079,2006,1525,2076)
4.	Primary Damper	KONI	03-19 (05348,06947,06947,08734)	03-19 (06876,06917,08341,06908)
5.	Secondary Damper	KONI	04-19 (05667,05665)	04-19 (04339,04351)
6.	Lateral Damper	KNORR/IAI	07-19 9605	07-19 250955
7.	Brake Cylinder	ESCORT	44765,45360,45342,44848	44764,45362,45343,44851
8.	Brake Caliper	ESCORT	24824,25299,25281,24907	24823,25300,25282,24910
9.	Brake Disc	KBI	242037510 0033-41/19,24203751 0035-41/19 24203757 0055-41/19,24203751 0056-41/19	24203752 0029-42/19,24203751 0073-42/19 24203756 0064-42/19,24203749 0057-41/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	AR/GMT		
16.	SEC . Rubber pad	AR		
17.	Rubber spring Make	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	280819-2,260819-2,260819-2,280819-3	170819-3,210819-2,210819-2,280819-2
22.	Control Arm Lower	RVE	160819-2,200819-2,170819-2,170819-2	160819-2,160819-2,280819-2,170819-3
23.	Phonic Wheel	KBI	K 05-19	K 05-19

Signature of SSE/Bogie/QC



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/2019-20/1299

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Type	LWACCN	Shell No.	93309	DISPATCH TO	Sr.DME/C&W/AII
				FUR.NO.	L3T-1366

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-ESCORT	
2	Distribution valve	M/S-ESCORT	2019040113
3	Pull box	M/S-FAV	1904A113
4	FIBA	NA	
5	Foot Step	M/s-HITECH INCREAVENTURE PVT LTD RBL	
6	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7	Floor board	M/s- NARBADA FOREST IND BHOPAL	
8	PVC	M/S PREMIER POLYFILM, GZB	
9	UIC Vestibule (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
10	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11	Gangway bridge mounting (PPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
12	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
13	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16	Roof Ceiling	M/S-MOBILITY SOLUTION LTD MOHALI	
17	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JUC	
18	Supply Air Duct	M/S- HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-ALEX OVERSEAS PVT LTD KXH	
20	Partition panel (HONEY COMB)	M/S-HONEYCOMB INTERNATIONAL BANGLORE	
21	Partition pillar	M/S-SIDHU INTERNATIONAL KXH	
22	AC Trough	M/S-MEENA FIBRE GLASS PUDUCHERY	
23	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
24	Compartment Door (PPE)	M/S-HANSPAL TRADERS KXH	
25	Compartment Door (NPPE)	M/S-HANSPAL TRADERS KXH	
26	Vestibule Door(PPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LDH	
27	Vestibule Door(NPPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LDH	
28	RMPU	M/S-AMIT ENGG PKL	
29	Bio Tank	M/S-UNIFAB,CEMCON CASTING PVT LTD	
30	Pressurised Flushing (Elect pneu)	M/S-IMI	
31	Auxiliary Water Tank	M/S-AMIT ENG,MOHALI	
32	Under Slung Water Tank (2X685L)	M/S-AMIT ENG,BADDI	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG,BADDI	
34	Health Faucet	M/S-BAHRIN FIBER GLASS CHITTOR	
35	Lotah Filler Tap	M/S-JAQUAR PVT LTD ALWAR	
36	Bib cock	M/S-JAQUAR PVT LTD ALWAR	
37	Lavatory Modules	M/A-BAHRIN FIBER GLASS CHITTOR	
38	Lavatory Doors	M/S-BAHRIN FIBER GLASS CHITTOR	
39	Fire Extinguisher	M/S-DEVIKA FIRE SERVICE	1314,1091
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
41	Seat & Berth	M/S-ORIENTAL VENEER PRODUCTS, MUMBAI	
42	Light Luggage Rack	M/S-RAIL FAB KXH	
43	Snack Table	M/S-DLJM NOIDA	
44	RFID	NA	

SSE
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लागू)





Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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				FUR.NO.	L3T-1366

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 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.CQM/MCF/RBL

गुणवत्ता विभाग
रेलवे कारखाना, रायबरेली (लालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareilly

Dy. Chief
आधुनिक रेल
Modern Co



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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/HOG AC COACHES
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	197865/C
RAILWAY	NWR	ELECT.FIT DATE	20-12-2019
FUR.NO	3T-1366		
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	19.64 Cub mtr/min	OK
3.2	Return Air	82.09 Cub mtr/min	OK
3.3	Exhaust Air	6.05 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		----
	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.		

(Signature)

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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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

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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): 2735 F Sr no of RMPU (PP side) : 2738 F Sr no of Microprocessor: AE 19.11.030	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-19-11-0061	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/08/0098 Sr no.1 : 3583 Sr no.2 : 3670 Sr no.CPA : NIL-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 : 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: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : INTEG ELECT.	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
11.	Passenger alarm coach indication light Make : KAVERI	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 : RECORD	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 : 05/19	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 : SSK	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : SSK	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/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DEVINTEC ELECTRICAL	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Regulated battery charger(RBC CUM EBC) Make : EEC Sr no: 10190070	RDSO/PE/SPEC/AC/0183 (REV '1')	01
27.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC 3089 LHB-1089	As Per EDTS-366,REV-NIL & CC-71510	01
28.	Provision of capacitor Bank Make : NEC SL.no : 2019100679	As per EDML-130 Rev-1,Corr-1	01
29.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2288	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 : MAA LAXMI INDUSTRIES	EDTS-328 REV-C	01 set
32.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
33.	Wheel Slide Protection System (WSP) Make : ESCORT Sr no : 180641-60147-0085	M/s : ESCORT	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

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंग/लालगंज/रायबरेली

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

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

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