



Modern Coach Factory Raebareilly

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/2018-19/1416

Rolling Stock Certificate No.: MCP/RDL/QC/RSC/																								
RLY	S	E	R	Coach No.	1	9	2	1	9	6	/	C	DATE OF DISPATCH	2	9	-	0	3	-	1	9			
DISPATCH TO		SSE/SRC		Type	L	W	A	C	C	W	Shell No.	8	3	4	7	5	-	2	0	1	8	-	1	9
2019/M(C)/142/2, Dated- 12.03.2019																								

1. Railway Board's Order No. : 2019/M(C)/142/2, Dated- 12.03.2019
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
4. **Special feature**

- A - Provision of AC-3T seat & berth for AC-2T seating format on 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.

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) 1101 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-RAIL TECH	45
	Front Part	NPP END M/s-RAIL TECH	45
	Complete	M/s-RAIL TECH	45
2.	Lav. side wall	M/S- COMPETANT ENG. JUC	LAV.1 - LAV.2 -
		M/S- COMPETANT ENG. JUC	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL (CONTRACTOR V4U)	437/01
	RH SIDE	MCF/RBL (CONTRACTOR V4U)	437/02
4.	End wall	PP END MCF/RBL(SIS)	---
	NPP END	MCF/RBL(SIS)	---
5.	Roof	M/S - DTL, PUNE	127
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 11935 NPP END 11904

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	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
1.	Paint	P.U	M/S -GS	Satisfactory	90/88
2.	Insulation				

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

रेडिंकॉ, रायबरेली (लाजगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	S	E	R	-	Type	L	W	A	C	C	W	Shell No.	8	3	4	7	5		-	-	-	-	-	-

DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	181760				181759			
Bogie Type	FLAT				FLAT			
Frame no.	WIL-101				WIL-127			
Bolster no.	AMIT-91				AMIT-71			
Axle No	18 F - 9439 RWF		18 F - 9366 RWF		18 F - 8440 RWF		17 D - 2270 RWF	
Wheel Dia	917.559	917.624	917.57	917.672	917.494	917.6	917.546	917.633
Wheel Disc No	TZ-05-18 25705-8PQ7	TZ-06-18 27920-8QG5	TZ-07-18 25583-7QJ8	TZ-07-18 37290-8RG7	TZ-07-18 24562-7PJ8	TZ-05-18 16501-8MQ2	TZ-05-18 42697-8RP7	TZ-05-18 24564-7PJ8
R.B. Nos.	07-18 41468	07-18 41113	05-18 14315	05-18 14305	05-18 14285	06-18 16863	05-18 14298	06-18 16872
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.	TAYEL & CO. Sr.NO-18-11 1260	TAYEL & CO. Sr.NO-18-08 774	TAYEL & CO. Sr.NO-18-08 778	TAYEL & CO. Sr.NO-18-11 1251

11 TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	239512,238852	239065,238772
2.	Primary outer Spring	CMRSK	08-18 03Y(4838,2899,3156,4819)	08-18 03Y(1352,3437,1509,4851)
3.	Primary Inner Spring	CMRSK	11-18 04Y(5599,7165,7163,7072)	11-18 04Y(6920,7153,7085,6057)
4.	Primary Damper	KNORR	12-18 (49068,47527,49067,47297)	12-18 (47465,47464,47252,47247)
5.	Secondary Damper	IAI	12-18(230784,230860)	12-18(231152,231089)
6.	Lateral Damper	GEREP	16-2018 301550559	16-2018 301550559
7.	Brake Cylinder	FAV	(M18-355,L18-291,M18-032,L18-309)	(L18-613,M18-036,L18-290,H18-684)
8.	Brake Caliper	FAV	N18(363,361,338,340)B	N19(339,337,366,368)B
9.	Brake Disc	KBI	24167538 0010-44/18,24167538 0012-44/18 24167538 0013-44/18,24167537 0022-44/18	24168003 0015-48/18,24167538 0014-44/18 24167538 0027-44/18,24167538 0011-44/18
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	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	ESCORT/KNORR	1806,1805	06-18 6937,6880
17.	Check Valve	ESCORT/KNORR	1806	10-18 14746
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	051218-1,041218-3,091118-2,041218-5	031218-2,051218-1,051218-1,041118-3
22.	Control Arm Lower	RVE	281118-1,061218-1,061218-3,281118-4	051218-4,271118-3,RVE,061218-1
23.	PHONIC	KNORR	K-12-18	K-12-18

Signature of SSE/Bogie/QC



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DISPATCH TO	SSE/SRC	Type	L	W	A	C	C	W	Shell No.	8	3	4	7	5	-	2	0	1	8	-	1	9
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	B 19100 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19025591 B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Fiba Device	M/s- KBI, FARIDABAD	PP/NPP-4750/4768
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- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S PREMIER POLYFILM, GZB	
9.	UIC Vestibule (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
10.	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11.	Gangway bridge mounting (PPE)	M/S- COMPETANT ENG. JUC	
12.	Gangway bridge mounting (NPPE)	M/S- COMPETANT ENG. JUC	
13.	Body Side Window	M/s- BIRKON ENGG.GZB	
14.	Emergency Window	M/s- BIRKON ENGG.GZB	
15.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED, JUC	
18.	Supply Air Duct	M/S- AMIT ENG. PKL	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- SIDDHU INTERNATIONAL CO. ORG.(SICO) KXH	
21.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
22.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
23.	Body Side Doors 1,3	M/S- JVR INDUSTRIES ,LDH	
24.	Body Side Doors 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Compartment Door (PPE)	M/S- HANSAL TRADERS. KXH	
26.	Compartment Door (NPPE)	M/S- HANSAL TRADERS. KXH	
27.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank LAV-1,2,3	M/s- FLASH FORGE (P)LTD. VIZAG	
30.	Bio Tank LAV-4	M/s- RAIL FAB	
31.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
32.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG. MOHALI	
33.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
34.	Flexible Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
35.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
37.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
38.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
39.	Fire Extinguisher	M/S-CAPITAL FIRE WORKS.	PP-06925,NPP-06924
40.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
41.	Light Luggage Rack	M/S- TECHNO INDUSTRIES, ALLAHABAD	
42.	Snack Table	M/s- INTERNATIONAL TRACTOR LTD.,JALANDHAR	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिफ़ा, रायबरेली (लागूगंज)



अतिरिक्त / रायबरेली



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DISPATCH TO	SSE/SRC	Type	L	W	A	C	C	W	Shell No.	8	3	4	7	5	-	2	0	1	8	-	1	9
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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/QC/MCF/RBL	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेडिफा, रायबरेली (नालगंज)

वरिष्ठ मेकानिकल इंजीनियर/गुणवत्ता
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

उप मुख्य गुणवत्ता प्रबंधक
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



27-7-28

MCF/RBL



Modern Coach Factory Raebareli
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE				
TYPE COACH		LWACCW	SHELL/COACH NO	192196/C
RAILWAY		SER	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	19.89 Cub mtr/min		OK
3.2	Return Air	52.72 Cub mtr/min		OK
3.3	Exhaust Air	7.06 Cub mtr/min		OK
3.4	Conditioned Air	166.32 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			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 due to Ambient temp. below 22°C			OK

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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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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : SSK Sr no of RMPU 1(NPP side) 760/18 Sr no of RMPU 2(PP side): 759/18 Sr no of Microprocessor: AE 19.02.197	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 184-07-2018	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA: 2017/07/051 Sr no.1: 17047051 Sr no.2: 17070498 Srno.CPA: NIL-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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: RT VISION	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: RT VISION	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: AGASTYA/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: DR AUTO	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: KAVERI	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 : HBL Lug date : 01/19	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: NIL	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : NIL	LW 71002,Alt-F	01
27.	Emergency battery charger Make : BHASIN Sr no: 01196211 Make : BHASIN Sr no: 01196159	EDTS 163,Rev `c` corg.-2&3	02
28.	5KVA Transformer Make: BHASIN SL.no : 09180049	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: KONTACT SL.no : KT-806	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-082	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 : AECO	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 40-18-1683	M/s : FAIVELEY	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 आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

