



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/2020-21 /1253

RLY	WR	COACH NO	215529/C	DATE OF DISPATCH	12-Mar-21
Type	LWSCN1	Shell No.	20G413	DISPATCH TO	Sr.DME/C&W/MMCT
				FUR.NO.	LSCN-1855

1. Railway Board's Order No. 2020/M(C)/ 142/2, DATED- 29.01.2021
2. Tare Weight of Coach : 41.24 Tonnes
3. Carrying Capacity : (a) Seating: 80 (b) Sleeping: 80 (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	4039
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	PP END M/S-OMAX AUTO NPP END M/S-OMAX AUTO Complete MCF/RBL-AIRCON	----- ----- 20G413
2	Lav. side wall	PP END M/S-ATHANCY ALD NPP END M/S-ATHANCY ALD	LAV.1 ----- LAV.2 ----- LAV.4 ----- LAV.3 -----
3	Side wall	LH SIDE M/S-DTL PUNE RH SIDE M/S-DTL PUNE	40 40
4	End wall	PP END M/S-MMPL NPP END M/S-MMPL	----- -----
5	Roof	MCF/RBL-CONT.	235
6	Centre Buffer Coupler	M/S-FRONTIETR	PP /NPP 171P1/161P2

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 . Max. pressure in BC All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	8 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	MAKE	APPLICATION BY MCF/ CONTRACTOR	AVERAGE	DATE OF
		OF PAINT		(SUPPLY & APPLY)	GLOSS VALUE	COMPLETION
1	Paint	P.U	GSI	M/S-GSI (WOW)	98/96	20-Feb-21
2	Insulation			Satisfactory		

36/06/21
SSE/QC/MCF/RBL
वरिष्ठ अनुष्ठानिक
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/2020-21/1253

RLY	-	W	R	Coach No.	2	1	5	5	2	9	/	C	-	DATE OF DISPATCH	1	2	0	3	2	0	2	1
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DISPATCH	Sr.DME/C&W/MMCT	Type	L	W	S	C	N	1	Shell No.	2	0	G	4	1	3	FUR.NO	LSCN-1855
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8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202729				202730			
Bogie Type	FIAT				FIAT			
Frame no.	V. S. - 2107				V. S. - 2117			
Bolster no.	APEX - 360				APEX - 364			
Axle No	21 C - 3482 RWF		20 B - 8740 RWF		20 B - 5564 RWF		21C - 3466 RWF	
Wheel Dia	917.55	917.60	917.50	917.59	917.50	917.61	917.437	917.493
Wheel Disc No	TZ 09-20 27779-0TE9	TZ 07-20 45468-PR2	TZ 09-20 27380-0TC9	TZ 09-20 29206-0TD1	TZ 09-20 29203-0TD1	TZ 09-20 26401-0SF5	TZ 09-20 28212-0TC7	TZ 09-20 25726-0SD3
R.B. Nos.	06-20 412540	06-20 412851	02-20 412442	06-20 411495	06-20 412278	06-20 411589	03-20 412953	06-20 409442
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. 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.	CMAFI-08-20- 5101-130	CMGBD-02-20- F08-836-304	CMAFI-08-20- 5101-68	CMGBD-02-20- F08-836-40	CMAFI-08-20- 5101-71	CMGBD-02-20- F08-836-45	CMAFI-08-20- 5101-70	CMGBD-02-20- F08-836-24
Compressed Ht. at Tested Load	514	472	515	472	516	472	515	470
Alignment deviation (mm)	5	18	5	18	10	14	10	14

10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	7528,7678	7737,7525
2.	Primary outer Spring	CMAFI	07-20-1100-(103,85,160,87)	07-20-1100-(96,12,14,102)
3.	Primary Inner Spring	CMAFI	07-20-1101-(224,209,5,235)	07-20-1101-(132,257,249,144)
4.	Primary Damper	IAI	01-20-(300798,298766,298757,298809)	01-20-(300816,298788,300714,299802)
5.	Secondary Damper	IAI	06-20-(327086,327317)	06-20-(326913,326955)
6.	Lateral Damper	KONI	04-19 02227	02-20 303700
7.	Brake Cylinder	FAV	G20-752, F20-(355,445,098)	62966,62640,62639,62965
8.	Brake Caliper	FAV	H20-(214,217,082,084)-B	39854,32265,39264,39858
9.	Brake Disc	HXDA	09-19-(44200858,48200967,48200961,49201079)	09-18-(48200961,49201079,48201034,48201002)
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG/BONY		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	BONY		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	BONY		
18.	Anti roll bar Make	RF		
19.	Roll Link make	RF+PRAG		
20.	Fork make	RNG		
21.	Control Arm Upper	CC	20F-(320,140,179), 20C-8	20G-(59,704,18), 20H-68
22.	Control Arm Lower	CC	20G-167,19L-266,20H-132,20G-29	20H-187,19L-265,20G-107,20G-398
23.	Phonic Wheel	FAV	FT/KEP/600	FT/KEP/600

Signature of SSE/Bogie/QC



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ROLLING STOCK CERTIFICATE
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21

RLY	WR	COACH NO	215529/C			DATE OF DISPATCH	12-Mar-21
Type	LWSCN1	Shell No.	20G413	DISPATCH TO	Sr.DME/C&W/MMCT	FUR.NO.	LSCN-1855

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	B21008B
2	Distribution valve	M/S-FAIVELEY	B215512B
3	Pull box	M/S-KBI	
4	FIBA	NIL	NIL
5	Foot Step	M/s- FABRICON KOLKATA	
6	Decoupling arrangement	M/s-PULSER KOLKATA	
7	Floor board	M/s-SHREE RAM PNL	
8	PVC	M/s-RESPONSIVE INDS DELHI	
9	Lavatory inlay	M/s-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER MUMBAI	
12	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-SHATABDI VADODARA	
15	Emergency Window	M/S-SHATABDI VADODARA	
16	Lavatory/hopper Window	M/s-AIKON HP	
17	Side panel	M/s-HFGW VADODARA	
18	Roof Ceiling	M/s-A.B COMPOSITE	
19	Door way Ceiling	M/s-A.B COMPOSITE	
20	Body Side Doors	M/s-JVR LDH	
21	Vestibule Door(PPE)	M/s-KALSI LDH	
22	Vestibule Door(NPPE)	M/s-KALSI LDH	
23	Bio Tank	M/S-FLASH FORGE-02 NOS+OMAX AUTOS-02 NOS	
24	Presurized Flushing(Elect.pneumatic)	M/S-OASIS	
25	Auxiliary Water Tank	M/S-SHIVALIK FAST MOHALI	
26	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST MOHALI	
27	Under Slung Water Tank (1x685 L)	M/S-AMIT ENGG MOHALI	
28	Health Faucet	M/S-KAPCO VALVES JUC	
29	Lotah Filler Tap	M/S-KAPCO VALVES JUC	
30	Controlled discharge tap	M/S-AGMECO LTD U.K	
31	Lavatory Doors	M/S-JVR LDH	
32	Seat & Berth	M/S-OVPL SILICON MUMBAI	
33	Ventury grill	NIL	
34	RFID	NIL	

30/06/21
वरिष्ठ अधिकारी
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
REV NO: 01
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ROLLING STOCK CERTIFICATE
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21

RLY	WR	COACH NO	215529/C	DATE OF DISPATCH	12-Mar-21
Type	LWSCN1	Shell No.	20G413	DISPATCH TO	Sr.DME/C&W/MMCT
				FUR.NO.	LSCN-1855

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
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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:

- 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 qualityrcfrbl@gmail.com
- 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 अनुसंधान अभियंता

गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)

Asst. Mechanical Engineer
आ. रे. डि. का. रायबरेली
MCF, RBL

Dy. Chief Quality Manager

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly



GSTIN : 03ACBPK3400D1ZM
Excise Regn. No. ACBPK3400DXM001

G. S. INDUSTRIES

APPROVED BY

N.S.I.C.
R.D.S.O.
ISO 9001-2015
ISO 14001-2015

D-146, FOCAL POINT EXTENSION, JALANDHAR-144004

PHONE : (O) 0181-5081474
(M) 99882-65025, 99884-55459
Website : www.gspaints.com
e-mail : info@gspaints.com

WARRANTY CERTIFICATE

Date- 8/3/2021

To,
DY.CME/FUR/PROGRESS
MODERN COACH FACTORY,
RAEBARELI, LALGANJ-229120

Sub:- PERFORMANCE WARRANTY CERTIFICATE

PO NO. 31061800101632 DATED 01.10.2019

NAME OF WORK: - SUPPLY AND APPLY OF PU BASED WET ON WET APPLICABLE EXTERIOR PAINTING SYSTEM FOR LHB COACHES. AS PER SCOPE OF WORK AND MMDTS-18034 REV-02 WITH AMENDMENT NO. MP/RBL/B8 DT 28/05/2019 (EPOXY ELASTIFIED PAINT INSIDE THE COACH NOT TO BE CARRIED OUT, PAINTING CYCLE TIME WILL BE 30 HRS AS MENTION IN MMDTS-18034 REV-02)

DEAR SIR,

With reference to above, we do here by confirm the warranty for six years of the date of application of delivered below mentioned coaches vide your above referred purchase order after application & due inspection at your end.

SR.	SHELL NO.	FURNISHING NO.	COACH NO.	Railway NO.	DATE OF COMPLETION
275	LW SCN 20G 413	LSCN-1855	215529	WR	18/2/2021 20/2/2021


The warranty is applicable from date of dispatch against the below mention defects as per MCF specification no. MMDTS 18034 REV-2

- Gloss level value of applied paint-initial 95 unit(on the date of painting) and minimum 90%,85%,75% & 70% of initial gloss after 6 months, one years, four years and six years respectively from the date of application.
- Decolonization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.
- The coach is warranted 6years for gloss retention, premature failure in colour retention (colour fading) or thatches/peel-off and blistering etc.,

Thanking you,

For G. S. INDUSTRIES
Anil K. Garg



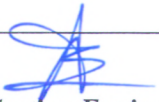
	Modern Coach Factory Raebareli आधुनिकरेलडिब्बाकारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
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FOR ELECTRICAL ITEMS


ROLLING STOCK CERTIFICATE OF LHB EOG NON AC SCN COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC SCN COACH.						
TYPE COACH		LWSCN		SHELL/COACH NO		215529/C
RAILWAY		WR	ELECT. FIT DATE	10-03-2021	MCF EUR. NO.	LSCN-1855
Sr. no.	Description of tests					Remarks
1.	PUMP EQUIPMENTS					OK
2.	LIGHTS, NL, LAP CHARGING SOCKETS					OK
3.	WORKING OF ACCIDENTAL, EMERGENCY LIGHTS.					OK
4.	RAILWAY CARRIAGE FAN					OK
5.	WHEEL SLIDE PROTECTION SYSTEM (WSP)					OK
6.	WORKING OF 9 KVA TRANSFORMER					OK
7.	WORKING OF REGULATED BATTERY CHARGER/EMERGENCY BATTERY CHARGER.					OK
8.	SAFETY :					----
8.1.	FUSES AND THEIR RATING					OK
8.2	CONTROL CIRCUIT					OK
8.3	POWER CIRCUIT					OK


 Senior Section Engineer
 Quality control / Electrical
 Modern Coach Factory Raebareli



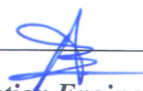


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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
01.	Fitment of Switch board cabinet.(set of panel) Make/Sr.no.: SSK On Board: 20/06/024 HT Panel: 20/06/040	EDTS 355, Rev`01'.Am-3	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make: VIMAL Sr no.: VTC 3089 LHB 4451	RDSO/PE/SPEC/TL 0158, 2010, Rev`0',Ty I.	01
03.	Mounting of 09KVA TFR.	As per drg no 1.10113.0.76.300.001,Alt -B.	OK
04.	Provision of Pump equipment with pump box. Make: HIND Sr no : 20/03/035 Pump 1: 20/03/069 Pump 2: 20/03/070	As per spec no. EDTS186,REV-A,AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: HIND SL.no.: 20/03/084	As per Spec. EDTS186 Rev-a Am-2, &drg no. CC71328 & LW70020	01
06.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: PI Sr. no.: 19120284	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.- 1)	01
07.	Provision of Feeder Junction Box Make : SYSTEMS & SERVICES	EDTS-328 REV-C,AM-4,Type- II,COR-2	01 SET
08.	Provision of IVC dummy Socket assembly.	As per Drg. No. LW71302,Alt-nil	01 SET
09.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt- H	01
10.	Battery fuse box -ve Make : AECO	As per LW 71002,Alt-I	01
11.	Provision of Battery boxes/ Cradles. Make: HITECH	As per Drg. No. 110113.0.76.700.005 W/O item 5,22,23,26 & 27,Alt-C or Latest.	01
12.	Provision of batteries Type:110 V, 120 AH VRLA SMF Battery Set. Make: AMARA RAJA Lug Date: 06/20	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET


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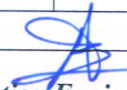


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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
13.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: SARIA	As per Drg. No. ICF/SK-7-6-158, alt-g. RDSO/PE/SPEC/TL/0021-2005 (Rev-3) with RCF annex-1, am-1.	30
14.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make : ENSAVE	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 .Type-B1.Drg. No. CC76453.	26
15.	Fitment of LED Light fittings for Night Light with berth indication Type-E (1 watt). Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1, ICF/STB-7-6-053.Type- E. Drg. No. CC76461	10
16.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-D. Drg. No. LW76092.	04
17.	Fitment of LED Light fittings for PACIL. Make: AGASTYA	As per RDSO/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-I. Drg. No. LW76098.	02
18.	Fitment of Accidental Emergency Light (AEL) Make: INTEG	As per RDSO/SPEC/AC/0180-2016, Rev-0 ,Type-II.	04
19.	Provision of Cable binder	Drg. No. CC76120, Item - 1, 2, 3. 100mm, 200mm, 300mm respectively.	OK
20.	Provision of Cable Jacket System.	EDTS-138, Cor-2, Item-5, 7, 8, 9, 11.	OK


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ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC SCN COACHES

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
21.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-6, Am-1, Table-1, Item-1.	10
22.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-6, Am-1, Table-1, Item-2.	10
23.	Provision of Switch plate assembly along with mobile charging sockets. Make: SALZER	EDML-086, Rev-5, Am-1, Table-1, Item-3.	20
24.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3ph, 50 Hz). Make:- 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	01 SET
25.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	OK
26.	Provision of Wheel Set Earthing equipment. Make:- NPP: DARSHAN ENTERPRISES PP: DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : FAIVELEY Sr no : 13075	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 SET

 SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आउटरेडिङका/ लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL कार्य प्रबन्धक / विद्युत आउटरेडिङका/ रायबरेली MCF/RBL
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