



# 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/2018-19/568

RLY	N	C	R	Coach No.	1	7	0	9	4	/	C	-	DATE OF DISPATCH	2	6	-	0	9	-	1	8
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DISPATCH TO	Sr.CDO/CNB	Type	L	W	A	C	C	W	Shell No.	8	2	0	1	7	-	2	0	1	8	-	1	9
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- Railway Board's Order No. : 2017/M(C)/142/2 Dated- 20.03.18
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL

#### 4. 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)1105 (NPPE) 2)1104 (PPE)

#### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/s NECHD	6118
	Front Part	NPP END M/s NECHD	6118
	Complete	MCF/RBL	82017
2.	Lav.side wall	M/s CONTRACTOR V4U	LAV.1 57 LAV.2 58
		M/s CONTRACTOR V4U	LAV.3 59 LAV.4 60
3.	Side wall	LH SIDE MCF/RBL	17
		RH SIDE MCF/RBL	17
4.	End wall	PP END M/S RSM	---
		NPP END M/S RSM	18
5.	Roof	MCF/RBL	16
6.	Centre Buffer Coupler	M/S ESCORT	PP END 5444 NPP END 5380

#### 6. 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 <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	06 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 06 Sec.	Brake must apply	OK

#### 7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S -BERGER	SUPPLY & APPLY	90/88
2.	Insulation			Satisfactory	

*[Signature]*  
SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेल डिब्बा कारखाना, रायबरेली (राजगंज)





MODERN COACH FACTORY, RAEBARELI

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RLY	N	C	R	Type	L	W	A	C	C	W	Shell No.	8	2	0	1	7	-	-	-	-	-	-	-
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## 8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	181157				181158			
Bogie Type	LWACCN				LWACCN			
Frame no.	ECBT-724				VS-1172			
Bolster no.	MCF/RBL-1852				AMIT-355			
Axle No	18D -8288 RWF		17 F -7756 RWF		17 D -3496 RWF		18 D -8163RWF	
Wheel Dia	917.522	917.578	917.553	917.570	917.503	917.65	917.466	917.625
Wheel Disc No	TZ-12-17 33861-7SJ4	TZ-12-17 33856-7SJ4	TZ-04-18 16057-8MP3	TZ-04-18 16050-8MT7	TZ-12-17 33862-7SJ4	TZ-12-17 33860-7SJ4	TZ-02-18 05513-7SH5	TZ04-18 15876-8MT1
R.B. Nos.	01-18 10860	02-18 15932	01-18 10856	02-18 15950	01-18 10861	02-18 15944	02-18 12785	02-18 15930
CT R B Make	SKF		SKF		SKF		SKF	

## 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.	CMRSK07-16F18L56-336	CMRSK03-16F19R68-1077F18-L55-610	CMRSK06-16-16F19R68-1068L56-19	CMFSK03-16F19R68-1068L56-19	CMRSK07-16F18-443-115	CMFSK07-18-9513-443-115	CMRSK06-16F18-L52-27	CMFSK07-18-9513-443-126
Compressed Ht. at Tested Load	509	466	507	468	510.5	463	510	467
Alignment deviation (mm)	8	38	7	30	9	9	7	9

## 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	55,49	76,161
2.	Primary outer Spring	CMRSK	08-18 F03Y-529(872,45,1015,784)	08-18 F03-529 03Y(720,933,904,1028)
3.	Primary Inner Spring	CMRSK	02-15 F-02 R91 02Y(50162,4415,3291,3204)	02-15 F-02 R91 02Y(3013,4886,4868,2989)
4.	Primary Damper	KNORR	07-18(27438,27435,27434,27433)	07-18(27430,27429,27436,27437)
5.	Secondary Damper	KNORR	07-18 (5559,5558)	07-18 (5560,5557)
6.	Lateral Damper	KNORR	06-18 3935	06-18 3936
7.	Brake Cylinder	FAV	D18-045,G18-030,F18-615,G18-289	D18-009,F18-436,G18-292,D18-042
8.	Brake Caliper	FAV	H18(599,597,561,563)B	H18(564,562,598,600)B
9.	Brake Disc	FAV	08-18(1007,1087,5426,3909) D133561-300	08-18(1010,948,251,250) D133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF/SARITA		
13.	Traction lever make	J.I		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE/DURIEL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	EMSON/SARITA		
19.	Roll Link make	SF/AR,SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	030718-2,180618-2,030718-2,250618-3	150618-1,270718-2,030718-2,240618-1
22.	Control Arm Lower	RVE	RVE,010718-1,170618-2,170618-2	170618-2,170618-2,210618-2,210618-2

Signature of SSE/Bogie/QC







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**11. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s Faively transport tech.india ltd baddi(HP)	C18096 B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18035576 B
3.	Pull box	M/s Faively transport tech.india ltd baddi(HP)	
4.	Foot Step	M/s HI TECH RBL	
5.	D-coupling arrangement	M/s ELASTOMER MUMBAI	
6.	Floor board	M/s NARMADA FOREST PVT. LTD. BHOPAL	
7.	PVC	M/s RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/s-Suncrest ind. kolkata	
9.	UIC Vestibule (NPPE)	M/s-Suncrest ind. kolkata	
10.	Gangway bridge mounting (PPE)	M/s COMPETENT ENGG.	
11.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENGG.	
12.	Body Side Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
13.	Emergency Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
14.	Hopper Window	M/s Aikon ind.salon H.P	
15.	Roof Ceiling	M/s KAL ENGG. PVT.LTD. U.K.	
16.	Door way /gang way ceiling	M/s JR Industries Jalandhar	
17.	Supply Air Duct	M/s Amirchand engg.works Jalandhar	
18.	Partition panel	M/s RAIL TECH, KHJ	
19.	Partition pillar	M/S RAIL FAB, KHJ	
20.	Side Wall panel	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
21.	AC Trough	M/s M/s KAL ENGG. WORKS PVT.LTD. U.K.	
22.	Body Side Doors 1,3	M/S- JVR INDUSTRIES ,LDH	
23.	Body Side Doors 2,4	M/s Sukata Tractor parts pvt.ltd. CDG	
24.	Compartment Door (PPE)	M/s KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/s JBM INDS. Faridabad	
27.	Vestibule Door(NPPE)	M/s JBM INDS. Faridabad	
28.	Bio Tank	M/s FLASH FORGE LTD VIZAG	
29.	Auxiliary Water Tank	M/s Manoj Engineering, Mohali	
30.	Under Slung Water Tank(1x450 L)	M/s Amit Engg. mohali	
31.	Under Slung Water Tank ( 2X685L)	M/s Shivalic fastners pvt.ltd. mohali	
32.	Flexible Faucet	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
33.	Lotah Filler Tap	M/s Hindustan Fiber Glass Vadodra (Gujarat)	
34.	Bib cock	M/s jaquar pvt.ltd. alwar	
35.	Lavatory Modules	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
36.	Lavatory Doors	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
37.	Fire Extinguisher	M/s- AGGRAWAL FIRE SERVICE LTD. (ATASEE)	PP-7594,NPP-2536
38.	Seat & Berth	M/s Oriental veneer products, mumbai	
39.	Light Luggage Rack	M/s Techno Industries Allahabad	
40.	Snack Table	M/s- MACHINO PLASTIES LTD. GURGAON	

SSE/QC/MCF/RBL

रायबरेली (सालगंजी)





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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

**15. 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 रेल डिब्बा कारखाना, रायबरेली (लालगंज)	AME/QC/MCF/RBL Assistant Mechanical Engineer / Quality 1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.QM/MCF/RBL Deputy Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareilly  
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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 FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCW	SHELL/COACH NO	17094/C
RAILWAY		NCR	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	15.36 Cub mtr/min		OK
3.2	Return Air	45.32 Cub mtr/min		OK
3.3	Exhaust Air	5.90 Cub mtr/min		OK
3.4	Conditioned Air	201.68 Cub mtr/min		OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition.  PP Side :20.1 °C NPP Side :21.2 °C			OK
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  Not done			OK

  
**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareilly**





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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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## ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : <b>AMIT ENGG.</b> Sr no of RMPU 1(NPP side): <b>2897-H</b> Sr no of RMPU 2 (PP side): <b>2901-I</b> Sr no of Microprocessor: <b>AE-18.08.844</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>ISG</b> Sr no : <b>SBC-MCF-17-05-0047</b>	As per spec no .EDTS073,REV-D,AM-6	<b>01</b>
03.	Pump equipment with PLC controller& pump box Make : <b>KALSI</b> Sr no PA : <b>7241/06/2018</b> Sr no.1 : <b>293266</b> Sr no.2 : <b>293267</b> Srno.CPA: <b>7275/07/2018</b>	As per spec EDTS 186,Rev-a, Am-2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Passenger area Light(Cabin) Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
06.	Corridor Light with Night light Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
07.	Doorway/Gangway light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>06</b>
08.	Emergency light system for EOG type coaches (AEL) Make : <b>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>ARHAM</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>

  
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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: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	<b>9</b>
12.	Reading light for upper berth Make: <b>AGASTYA</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	<b>26</b>
13.	Reading light for transverse berth (RHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	<b>8</b>
14.	Reading light for berth transverse ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	<b>9</b>
15.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>
16.	Razor socket for WC 110/240V. Make : <b>SSK</b>	EDML 047 ,Rev nil	<b>04</b>
17.	Terminal strip Make : <b>WAGO</b>	EDML 033,Rev-c	<b>01</b>
18.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : <b>SSK</b>	EDML 047,Rev_C, Item 1.	<b>09</b>
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : <b>SSK</b>	EDML 047,Rev_A ,Item 2.	<b>09</b>
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
22.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173 Rev- a Am-1,2&3	<b>01 set</b>

  
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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 : <b>AMARA RAJA</b> Lug date : <b>08/2018</b>	EDTS 129,Rev nil	<b>01 set</b>
24.	Battery box for LHB coaches. Make : <b>ANKUR ENGG.</b>	As per drgno 1 10113 0 76 700 005,Alt C	<b>01</b>
25.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
26.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
27.	Emergency battery charger Make : <b>NAREN ELECT.</b> Sr no: <b>1808395</b> Make : <b>NAREN ELECT.</b> Sr no: <b>1808396</b>	EDTS 163,Rev `c' corg.-2&3	<b>02</b>
28.	5KVA Transformer Make : <b>VIMAL</b> SL.no : <b>-240</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
29.	Capacitor Bank Make : <b>S. INTERNATIONAL</b> SL.no : <b>285-01/18</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
30.	60KVA transformer Make : <b>VIMAL</b> Sr no :- <b>4721</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
31.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>PRIME ELECT.</b>	As per spec No EDTS 105,Rev `e' Am-2	<b>02 sets</b>
32.	Feeder junction boxes. Make : <b>ELECOS</b>	EDTS-328 REV-C	<b>02</b>
33.	Wheel set earthling equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b>
34.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>48/17/1255</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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