



# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/PC

REV NO: 00

DATE: 10.10.2017

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 18-19/475

RLY	N	R	-	Coach No.	1	8	3	8	6	3	/	C	DATE OF DISPATCH	0	7	-	0	9	-	1	8
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DISPATCH TO	Sr DME/CHG/UMB	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	7	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 Dated.- 20-03-2018
2. Tare Weight of Coach : 53.2 Tonnes
3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones

### 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) 1105 (PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	PP END M/S E.c.blades & tool pvt. Ltd CDG	242
	Front Part	NPP END M/S E.c.blades & tool pvt. Ltd CDG	242
	Complete	M/S Escorts ltd railway equipment FBD	242
2.	Lav.side wall	M/s MCF/RBL CONTRACTOR V4U	LAV.1 101 LAV.2 102
		M/s MCF/RBL CONTRACTOR V4U	LAV.3 103 LAV.4 104
3.	Side wall	LH SIDE MCF/RBL	27
		RH SIDE MCF/RBL	27
4.	End wall	PP END M/S E.c.blades & tool pvt. Ltd CDG	-
		NPP END M/S E.c.blades & tool pvt. Ltd CDG	-
5.	Roof	M/S DTL ancillaries ltd pune	47
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 4651 NPP END 4641
7.	Buffers	M/S Raneka inds.ltd. DHAR	N.A NPP END 88017

### 6. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
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	07 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 @ 0.1kg/cm <sup>2</sup> /Sec. after 06 Sec.	Brake must apply	OK
4.	Handbrake(Parking brake)for generator car	1.Apply hand brake 2.Release hand brake	1.Hand Bk. indicator should be red 2.Hand Bk. indicator should be green	OK OK

### 7. FIRE TESTING:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1	generator car	Smoke detection	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate	OK
		Heat detection	1.controller should display smoke/heat in zone 1,2 2 strobe light & hooter should activate	OK

### 8. PAINTING DAETAILS:

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

*[Signature]*  
SSE/QC/MCF/RBL  
गुणवत्ता विभाग  
रेडिंक 0, रायबरेली (लालांज)





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/475

Coach No.	1	8	3	8	6	3	/	C	-	DATE OF DISPATCH	0	7	.	0	9	.	1	8					
RLY	N	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	7	-	-	-	-	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	180936				180935			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1251				A.M.L-59			
Bolster no.	SFPL-164				SFPL-134			
Axle No	18 F - 7513 RWF		18 F - 7426 RWF		17D - 3313 RWF		17D - 8292RWF	
Wheel Dia	917.71	917.64	917.721	917.649	917.673	917.626	917.662	917.609
Wheel Disc No	TZ04-18 15931-8MT2	TZ04-18 15930-8MT2	TZ05-18 16163-8MQ8	TZ05-18 16146-8MX6	TZ04-18 12270-8MV8	TZ04-18 16053-8MT7	TZ04-18 12271-8MN8	TZ04-18 12472-8MX6
R.B. Nos.	04-18 23497	02-18 14983	04-18 24024	04-18 22490	02-18 12894	04-18 23566	02-18 14890	04-18 22529
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.	CMFSK07-18- 8836-360-29	CMAFJ02-18- 8837-645	CMFSK07-18- 8836-360-13	CMAFJ02-18- 8837-651	CMAFJ05-18- 7146-23	RSK01-18-15Y-407	CMAFJ05-18-7146- 27	RSK01-18-15Y- 285
Compressed Ht. at Tested Load	510	466	510.5	466	510	468	511	468
Alignment deviation (mm)	10	20	9	20	10	16	11	16

**10. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	9101,9102	9103,9099
2.	Primary outer Spring	CVFSK	07-18 7142-350 (207,225,148,197)	07-18 7142-350(110,229,103,301)
3.	Primary Inner Spring	CMGBD	05-18 143 (58-336,59-423,59-410,58-429)	05-18 143-(58-447,59-345,59-398,59-428)
4.	Primary Damper	KNORR	05-18(20047,20033,27675,20043)	05-18(22019,20022,20021,27684)
5.	Secondary Damper	KNORR	05-18 (4739,4735)	05-18(4736,4737)
6.	Lateral Damper	KNORR	06-18 3995	06-18 3345
7.	Brake Cylinder	KBI	A (6329,5917,5897,6331)K29	A6307K29,M5598-35,M5599-35,A6335K29
8.	Brake Caliper	KBI	A (1116,0556,0555,1118)-29	A1119-29,L9378-35,L9377-35,A1117-29
9.	Brake Disc	FAV	08-18(1130,857,923,922)D133561-300	08-18(236,238,237,239)D133561-300
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.	Secondary Rubber Pad	DURIEL/TECSPAK/PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	RVE, 250718-1,210618-2,230718-2	220718-3,250718-2,RVE,240718-1
22.	Control Arm Lower	RVE	RVE240718-1,RVE,240718-4,220718-2	RVE,210718-3,270718-1,RVE

Signature of SSE/Bogie/QC







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DISPATCH TO	Sr DME/CHG/UMB	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	7	-	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 KBI Faridabad. New Delhi	0128 28/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018 G 5505
3.	Hand brake equipment	M/s PALSTO POWER P.B.	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL, mumbai	
6.	PVC	M/s Premier polyfilm, Ghaziabad	
7.	UIC Vestibule (NPPE)	M/s-SUNCREST, MUMBAI	
8.	Gangway bridge mounting (NPPE)	M/s COMPETENT ENG.	
9.	AL. Chequer plate/sheet	M/s Hanspal coach products, KXH	
10.	Automatic fire detection & suppression system	M/S Sanrok, faridabad	
11.	Body Side Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
12.	Lavatory/hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
13.	Roof Ceiling	M/s-GANDHI SAFE & ALLIED, Jalandhar (GUARD ROOM) ,RAIL EXPORT,JUC (CREW ROM)	
14.	Generator room ceiling	M/S Rail tech pvt.ltd. KXH	
15.	RMPU	M/s INTEC, DEHRADUN	
16.	AC Trough	M/s CMT MECHANISED SYSTEM, VADODARA	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S Rail tech pvt.ltd. KXH	
19.	Body Side Doors	M/s JBM, Faridabad	
20.	Vestibule Door(NPPE)	M/s JBM, Faridabad	
21.	Crew/gen. room door	M/s JBM, Faridabad	
22.	Crew/guard room door	M/s JBM, Faridabad	
23.	Bio Tank (01 No LAV.)	M/s P.D.STEEL	
24.	Auxiliary Water Tank(1x30L)	M/S Shivalic fastners pvt. ltd. mohali	
25.	Under Slung Water Tank (1x450 L)	M/S AMIT ENGG.. mohali	
26.	Fuel tank (2x1500 L)	M/S Shivalic fastners pvt. ltd. mohali	
27.	Flexible Faucet	M/s Hindustan fibre ltd. vadodara	
28.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
29.	Bib cock	M/s KALSI PUMPS, JALANDHAR	
30.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
31.	Lavatory Doors	M/s KALSI, LDH	
32.	Seat & Berth	M/s GANDHI SAFE & ALLIED, JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S OM IND, UTTRAKHAND	

*Deema*  
SSE/QC/MCF/RBL  
वार 0अनु 0 अधियंता

गुणवत्ता विभाग  
रेडिओ, रायबरेली (त. 1/10)









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DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 11.09.2017

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR			
TYPE COACH	LWRRM	SHELL/COACH NO	183863/C
RAILWAY	NR	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	13.04 Cub mtr/min	OK
3.2	Return Air	30.06 Cub mtr/min	OK
3.3	Exhaust Air	NIL Cub mtr/min	OK
3.4	Conditioned Air	53.90 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 : 21.1 °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		OK

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB POWER CAR  
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FAN OVER	OK
10.0	LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGERS	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	HYGROSTAT	OK
16.4	CONTROL CIRCUIT	OK
16.5	POWER CIRCUIT	OK
16.6	ALTERNATER EARTH LEAKAGE RELAY	OK
16.7	FEEDER EARTH LEAKAGE RELAY	OK
16.8	UNDER VOLTAGE RELAY	OK
16.9	OVER VOLTAGE RELAY	OK
16.10	BUS COUPLAR	OK
16.11	FEEDER CONTACTOR	OK
16.12	SMOKE TEST	OK
17.0	REFRIGERANT USED R 407C	OK

  
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ROLLING STOCK CERTIFICATE OF LHB/ POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : <b>INTEC</b> Sr no of RMPU (PP side): <b>17M897T2</b> Sr no of Microprocessor: <b>18.02.1274 -SIDWAL</b>	RDSO/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Power and Control Panel for LHB Power car, Make: <b>TRINITRON</b> Sr no : <b>18/06/TCS/RBL/3414/LHB/0014</b>	EDTS-103 ,REV-c	<b>01</b>
04.	Switch board cabinet Make : <b>ABROL</b> Sr no : <b>58-11/2017</b>	EDTS 104, REV-a	<b>01</b>
05.	Pump equipment with PLC controller & pump box Make: <b>DR AUTO</b> Sr no PA- <b>2017/09/50</b> Sr no.1- <b>17090340</b> Sr no.2- <b>17090309</b> Sr no.CPA- <b>2018/03/085</b>	EDTS 186,Rev-a, Am- 2	<b>01</b>
06.	Lavatory light fitting assly Make : <b>DR AUTO</b>	LW 76001,Alt nil	<b>01</b>
07.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>
08.	Razor socket for WC 110/240V Make : <b>SSK</b>	EDML 047 ,Rev nil	<b>01</b>
09.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01</b>
10.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>01</b>
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: <b>SSK</b>	EDML 047,Rev- C, Item 1.	<b>02</b>
12.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,TYPE -II	<b>01 set</b>
13.	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>05/18</b>	EDTS 129,Rev nil	<b>01 set</b>

  
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ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: <b>MICROTEX</b> Lug date: <b>07/18</b> (B) Make: <b>MICROTEX</b> Lug date: <b>06/18</b>		<b>02 sets</b>
15.	Battery box for LHB coaches. MAKE- <b>NIL</b>	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	<b>01</b>
16.	Battery fuse box +ve Make : <b>INTEG</b>	LW 71001,Alt-F	<b>01</b>
17.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
18.	60KVA TFR Make- <b>AUTOMATIC</b> Sr no:1. <b>1/18/T510483/79</b> Make- <b>AUTOMATIC</b> Sr no:2. <b>1/18/T510483/41</b> Make- <b>AUTOMATIC</b> Sr no:3. <b>1/18/T510483/83</b>	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	<b>03</b>
19.	Capacitor Bank Make: <b>S.INTERNATIONAL</b> SL.no. <b>397-04/2018</b>	EDML-130 Rev-1,Corr-1	<b>01</b>
20.	Emergency Battery Charger Make- <b>WAVES</b> Sr no:1. <b>184618</b> Make- <b>WAVES</b> Sr no:2. <b>184619</b>	EDTS-163 REV-C, corg-2&3	<b>02</b>
21.	Wheel set earthing equipment. Make : <b>MAA LAXMI INDUSTRIES</b>	EDTS101,REV-C,AM-1	<b>02</b>
22.	Wheel Slide Protection System (WSP) Make- <b>KNORR</b> Sr no : <b>0118125148</b>	MDTS 077 REV-2	<b>01 set</b>
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	<b>02</b>
23.a1	Sr no of Alternator "A" Make- <b>GREAVES</b> Sr No- <b>3309121712461</b>	EDTS 102, Rev`c'	<b>01</b>
23.a2	Sr no of Diesel Engine "A" Make- <b>GREAVES</b> Sr no- <b>1309121712461</b>	EDTS 102, Rev`c'	<b>01</b>

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- <b>GREAVES</b> Sr no : <b>3309121712468</b>	EDTS 102, Rev`c'	<b>01</b>
23.b 2	Sr no of Diesel Engine "B" Make- <b>GREAVES</b> Sr no : <b>1309121712468</b>	EDTS 102,	<b>01</b>
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- <b>INDORAIL</b> Sr no- <b>2018060179</b>	EDTS 110,REV-NIL	<b>01</b>
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: <b>KIRLOSKAR</b> Sl no: <b>EML 271-187</b> 2.Make: <b>KIRLOSKAR</b> Sl no: <b>EML 271-174</b>	EDTS 110,Rev nil	<b>01</b>
26.	Radiator Fan Motor for Diesel Engine -"A" Make: <b>ABB</b> SL no: <b>3G1J17480001519105</b>	EDTS 104, Rev`a'	<b>01</b>
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- <b>ABROL</b> Sr no- <b>2018-07-211</b>	EDTS-104,REV-A	<b>01</b>
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: <b>KIRLOSKAR</b> Sl no: <b>EML 271-180</b> 2.Sl no <b>EML 271-183</b>	EDTS 110,Rev nil	<b>01</b>
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- <b>INDORAIL</b> Sr no- <b>2018060180</b>	EDTS 110,REV-NIL	<b>01</b>

  
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30.	Radiator Fan Motor for Diesel Engine -"B" Make: <b>GREAVES</b> Sr no- <b>RGG 95746</b>	EDTS 104, Rev`a'	<b>01</b>
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- <b>ABROL</b> Sr no- <b>2018-07-206</b>	EDTS-104,REV-A	<b>01</b>
32..	Starter Battery Charging Control Panel -A & B Make : <b>ISG</b> Sr no: <b>SBC-MCF-17-05-0010</b>	EDTS 116,Rev nil	<b>01</b>
33.	Feeder Junction box. Make: <b>AECO</b>	EDML 020, Rev`a'.	<b>01 set</b>
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- <b>INTEG</b>	EDTS-331, TYPE-2	<b>01</b>
35.	Lights Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	<b>20</b>
36.	Smoke Detector Unit. Make: <b>AGANI</b> Sr no: <b>1913</b>	EDTS 087,Rev`a',Type II	<b>01</b>
37.	Provision of Tail light switch2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: <b>SSK</b>	As per Cat no. SG 16	<b>02</b>
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): <b>MAA LAXMI INDUSTRIES</b> 2.(PP): <b>MAA LAXMI INDUSTRIES</b>	EDTS 105, Rev`c'.	<b>01 set</b>
39.	Connector for External supply socket. Make: <b>JAI BALAJI</b>	EDML 013, Rev nil.	<b>02</b>

वरिष्ठ विद्युत अभियन्ता <b>SSE/EL/QC</b> आधुनिक डिब्बा कारखाना / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	वरिष्ठ विद्युत अभियन्ता <b>SEE(P)/MCF/RBL/</b> रेल कारखाना, रायबरेली <b>DYCEE/P&amp;P/MCF/RBL</b>
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