



# रेल डिब्बा कारखाना, रायबरेली RAIL COACH FACTORY, RAEBARELI



FORM NO: RCF/RBL/QMF 8001  
VERSION: 2012-01-01

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 04/05/2016

SHELL NO.	L	W	A	C	C	W	5	2	0	1	6	/	1	5	-	1	6	DATE OF DISPATCH	2	3	1	1	2	0	1	5
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RLY	E	R	Type	L	W	A	C	C	W	Coach No.	1	5	0	5	6	/	c	-
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- Railway Board's Order No. : 2015/M(C)/142/1, dated 13.10.15
- 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/-15
		1) 1099(NPPE) 2) 1101(PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Buffers	N.A.	
2.	Centre Buffer Coupler	M/S ESCORTS	PP END L14018B NPP END L14020B

### 6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> <li>Reduce pressure of BP from 5.0 to 3.4 kg/cm<sup>2</sup>.</li> <li>Max. pressure in BC</li> <li>All Brake are applied</li> </ul>	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	8 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 02 Sec.	Brake must apply	OK

### 7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE
1.	Paint	P.U.	NEROLAC	94/91
2.	Insulation		Satisfactory	



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## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: RCF/RBL/QC/RSC

Date: 21/01/2016

SHELL No.	R	B	L	-	5	2	0	1	6	-	2	0	1	5	-	1	6	DATE OF DISPATCH	2	3	/	1	1	/	1	5
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### 8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	150098				150097			
Bogie Type	FIAT				FIAT			
Frame no.	RBL-90				RBL-69			
Bolster no.	RBL-128				RBL-106			
Axle No	106243 CHT 14		131944 CHT 13		106541 CHT 14		106347 CHT 14	
Wheel Dia	915.618	915.534	915.511	915.397	915.701	915.502	915.539	915.423
Wheel Disc No	ZB2014 333-40582	ZB2014 015-10582	ZB2014 152-10583	ZB2014 0021-10370	ZB2014 277-10533 W474	ZB2014 153-61077	ZB2014 314-11609	ZB2014 243-63301 W474
R.B. Nos.	32680	32774	39871	38896	38012	32956	38823	38910
CT R B Make	SKF		SKF		SKF		SKF	

### 9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie PP side				Bogie NPP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	DN12 U 3047T	G 13-3 4344	DN12 S 2477T	G 13-3 4326	DN12 O 2171T	G 13-3 4216	DN11 B 1409T	G 13-3 4240
Compressed Ht. at Tested Load	502	467	508	467	509	467	509	468
Alignment deviation (mm)	22	20	19	19	12	14	16	16

### 10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	SERIAL NO.		MAKE
		PP SIDE	NPP SIDE	
1.	Primary outer Spring	G 13-3	G 13-3	G
2.	Primary Inner Spring	G 12-5,(G 12-5A)	G 12-5	G
3.	Primary Damper	301530049 KW (14/2015,40/2014)	301530049 KW 14/2015	GEREP
4.	Secondary Damper	301550333 KW 40/2014	301550333 KW 40/2014	GEREP
5.	Lateral Damper	301550332 KW 29/2014	301550332 KW 44/2014	GEREP
6.	Brake Cylinder	850 K29, 853 K29, 862 K29, 801 K29	800 K29, 852 K29, 854 K29, 799 K29	KBI
7.	Brake Caliper	769-29, 829-29, 828-29, 767-29	764-29, 827-29, 830-29, 763-29	KBI
8.	Brake Disc	24043491-0009 35/14, 24043491-0010 35/14 24042692-0008 36/14, 24042692-0007 36/14	24042689-0003 36/14, 24042685-0007 36/14 24042692-0005 36/14, 24042692-0006 36/14	KBI
9.	Ball Joint Control Arm			GMT
10.	Lateral Bump Stop			MGN
11.	Traction Centre make			EMSON
12.	Traction lever make			SARITA
13.	Ball joint traction lever			MGN
14.	Ball joint traction centre			GMT
15.	Secondary Rubber Pad			TECSPAK
16.	Rubber Spring			GMT
17.	Anti roll bar make			SARITA
18.	Roll Link make			SARITA
19.	Fork make			SARITA

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RLY	E	R	Type	L	W	A	C	C	W	Coach No.	1	5	0	5	6	/	c	-
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### 11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad New Delhi	15C0958
2.	Pull box	M/s KBI Faridabad New Delhi	
3.	DV	M/s KBI Faridabad New Delhi	2014M1498
4.	PVC	M/s Responsive Industries , Colaba, Mumbai	
5.	UIC Vestibule (PPE)	M/s Ameenji Rubber PVT. LTD. Hydrabad	
6.	UIC Vestibule (NPPE)	M/s Ameenji Rubber PVT. LTD. Hydrabad	
7.	Foot Step	M/s Super Spark Pvt. Ltd. Faridabad	
8.	Decoupling arrangement	M/s SECO industries mumbai	
9.	Body Side Window	M/s Aikon Technology Pvt. Ltd. Solan HP	
10.	Emergency Window	M/s Aikon Technology Pvt. Ltd. Solan HP	
11.	Lavatory/hooper Window	M/s Aikon Technology Pvt. Ltd. Solan HP	
12.	Roof Ceiling	M/s KAE Engg. pvt.Ltd. Satarganj (UK)	
13.	Non-AC Area Ceiling	M/s Gandhi Enterprises,jalandhar	
14.	Supply Air Duct	M/s Hanspal Coach Product Kapurthala	
15.	Body Side Doors	M/s Kalsi Ludhiana	
16.	Compartment Door (PPE)	M/s Rail Tech KXH	
17.	Compartment Door (NPPE)	M/s Rail Tech KXH	
18.	Vestibule Door(PPE)	M/s Kalsi Ludhiana	
19.	Vestibule Door(NPPE)	M/s Kalsi Ludhiana	
20.	CDTS	M/s Airflow Equipments India PVT. Chennai	
21.	Auxiliary Water Tank	M/s Shivalik Fasteners, Mohali Punjab	
22.	Under Slung Water Tank(450 L)	M/s Shivalik Fasteners, Mohali Punjab	
23.	Under Slung Water Tank ( 2X685L)	M/s Amit Engineers, Mohali Punjab	
24.	Flexible Faucet	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
25.	Lotah Filler Tap	M/s Metco Delhi	
26.	Lavatory Modoules	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
27.	Lavatory Doors	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
28.	Waste Bin Arrangement	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
29.	Fire Extinguisher	M/s Fire Fox	156,261
30.	Side Wall panel	M/s Hindustan Fibre Ltd. Vadodra (Gujrat)	
31.	Seat & Berth	M/s Savitri Engg. products Pontasahib HP	
32.	Light Luggage Rack	M/s Virendra Steel Enterprises Chandigarh	
33.	Snack Table	M/s Anjani technoplast Noida	



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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake blocks, wheels, push gravity cocks, flushing valves, moldings, window glasses, mirrors, roller blinds, curtain & bulbs etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months date of dispatch of coach or 30 months from 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 RCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com

DY CME  
MCF/RBL

उप सु.यां.अभि./फर्नि.  
DY CME/FURNISHING  
रेल कोच फैक्ट्री / रायबरेली / लालगंज  
RCF / RBL / LLJ

सहायक मेकानिक अभियन्ता/ गुणवत्ता  
Asst. Mechanical Engineer/ Quality  
रेल डिब्बा कारखाना, लालगंज, रायबरेली  
Rail Coach Factory, Lalganj, Raebareli

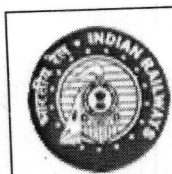


## ABBREVIATIONS USED

S. N.	ITEMS	CODE	MAKE	SUPPLIER
1	Spring	GF	M/s Federnwerke J.P Grueber, Germany	M /s Pan India Consultant Pvt.Ltd 105 Phase -IV Udyog Vihar, Gurgoan-122015 Haryana
		CVFSK	M/s Frontier Springs Ltd, Kanpur	M/s Frontier Springs Ltd, Kanpur
		CMGBD/GB	M/s G.B. Springs (P) Ltd, Dehradun	M/s G.B. Springs (P) Ltd, Dehradun
		BPS	M/s B.P. Springs &Engineering Co. Pvt. Hwh	M/s B.P. Springs &Engineering Co. Pvt. Hwh
		HZ	M/s Hanacke Zelezarny A Perovny, Czech Re Public	M/s Abrol Egeineering Co. Pvt Ltd, KXH
		L&S	M/s Langen &Sondermann GMBH &Co.KG, Germany	M/s Abrol Egeineering Co. Pvt Ltd, KXH
2	Dampers	GEREP	M/s GERE MASCHINENBAU Gmbh, alter postweg 10, 29556Suderburg	M/s SFT Engineering KOLKATA
		KONI	M/s KONI Shock Absorbers Beyerland, Lageweg	M /s Pan India Consultant Pvt.Ltd 105 Phase -IV Udyog Vihar, Gurgoan-122015 Haryana
		SV	M/s Suomen Vaimennin OY Finland	River Engineering Pvt. Ltd. Plot no. 54-55 Toy City Ecotech-III Greater noida UP
		KBI	Knorr Bremse India Private Limited.	14/6,Mathura Road, Faridabad, 121003,India
		FTI	Faiveley Transport India	Faiveley Transport India Plot No. 3A , Bhatoli,Baddi,Distt:- solan (HP)
3	Rubbers items	GMT	M/s Gummi-Metall-Technik Gmbh, ErlenstraBe 15,D-77815 Buhl	Sh. K Lakshman of M/s Gummi-Metall-Technik 27C, KIAB Industrial area Bidadi, Bangalore
		SGA	M/s SGA Societa Gomma Anti Vbrante S.R.L 2009Opera (MI) Via Laubro 45147 Italy	M /s Pan India Consultant Pvt.Ltd 105 Phase -IV Udyog Vihar, Gurgoan-122015 Haryana
		MGN	M/s MGN, C/Calvario s/n 28864 Ajalvir Madrid	M/s Abrol Egeineering Co. Pvt Ltd, KXH
		MTC	M/s Metalo Caucho Spain	M/s MTC India Polymer Product Pvt. Ltd. Bangalore
		EMSON	Emson Tools Mfg Corporation Limited	D-2 Focal Point, Dhandari Kalan Ludhiana
		SARITA	Sarita Forgings Pvt.	2nd Km Milestone, G.T. Road, Vill Rajgarh, Doraha,Ludhiana

quality/fur/springdetails

27-124



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**FOR ELECTRICAL ITEMS**

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

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

<b>TYPE COACH</b>	<b>LWACCW</b>	<b>SHELL/COACH NO</b>	<b>15056/C</b>
<b>RAILWAY</b>	<b>ER</b>	<b>DATE OF DESPATCH</b>	
<b>Sr no</b>	<b>Description of tests</b>	<b>Remarks</b>	
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	<b>29.63</b> Cub mtr/min	OK
3.2	Return Air	<b>69.14</b> Cub mtr/min	OK
3.3	Exhaust Air	<b>5.70</b> Cub mtr/min	OK
3.4	Conditioned Air	<b>171.14</b> 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 : <b>22.1°C</b> NPP Side : <b>22.2°C</b>	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	

*(Signature)*  
**Senior Section Engineer**  
**Quality control / Electrical**  
**Rail Coach Factory Raebareli**





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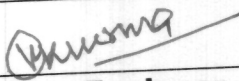
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**FOR ELECTRICAL ITEMS**

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

**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 <b>R 407C</b>	OK

  
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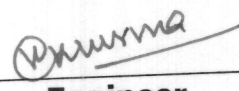
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : <b>INTEC</b> Sr no of RMPU 1(NPP side): <b>15-E-347</b> Sr no of RMPU 2(PP side): <b>15-E-338</b> Sr no of Microprocessor: <b>15.05.056/SDWL</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>TRANSTEL</b> Sr no : <b>019-07/2015</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>4142/10/14</b> Sr no.1- <b>251423/10/14</b> Sr no.2- <b>251424/10/14</b> Sr no.CPA- <b>4187/10/14</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.	Vestibule Light Fitting Single w/o diffuser	LW 76004,Alt-b	<b>06</b>
06.	Ceiling light fitting DOUBLE w/o diffuser.	LW 76011,Alt-c	<b>09</b>
07.	Ceiling light fitting with NL w/o diffuser w/o item 2&3	LW 76013,Alt-c	<b>09</b>
08.	Emergency light system for EOG type coaches (AEL)	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly	LW 76001,Alt nil	<b>04</b>

  
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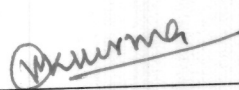
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
10.	WC gauge signal light	LW 76006,Alt-c	02
11.	Passenger alarm coach indication light	LW 76005,Alt-e	02
12.	Reading Light fitting ( Upper berth )	LW 76023,Alt-e	26
13.	Reading light for longitudinal berth LHS	LW 76022,Alt-e	09
14.	Reading light for transverse Lower Berth -LH	LW 76020,Alt-e	09
15.	Reading light for transverse Lower berth RH	LW 76021,Alt-e	08
16.	Fluorescent lamp 18W	RDSO/PE/SPEC/D/TL 0011-2000,Rev I, Sec- I , 07/2001	33
17.	Diffuser complete w/o item 1& 2.	LW 76012,Alt-a	25
18.	Razor socket for WC 110/240V.	EDML 047 ,Rev nil	04
19.	Terminal strip	EDML 033,Rev-c	01
20.	Terminal connector	EDML 037,Rev`a`	04
21.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame	EDML 047,Rev_C, Item 1.	09
22.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame	EDML 047,Rev_A ,Item 2.	09
23.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame	As per cat no EL-243 (EL signature series ) of M/s SSK	09
24.	PA system for LHB coaches Make :AHUJA	EDTS 173 Rev- a Am- 1,2&3	01 set

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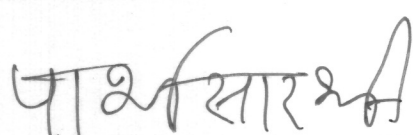
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## ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	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>02/2015</b>	EDTS 129,Rev nil	<b>01 set</b>
26.	Battery box for LHB coaches.	As per drgno 1 10113 0 76 700 005,Alt C	<b>01</b>
27.	Battery fuse box +ve Make : <b>NEC</b>	LW 71001,Alt-F	<b>01</b>
28.	Battery fuse box -ve Make : <b>INTEG</b>	LW 71002,Alt-F	<b>01</b>
29.	Regulated battery charger Make : <b>HIREL</b> Sr no: <b>15060318</b>	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	<b>01</b>
30.	Emergency battery charger Make : <b>BHASIN</b> Sr no: <b>09140748</b>	EDTS 163,Rev `c' corg.-2&3	<b>01</b>
31.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>2876</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
32.	ZS coupling 400A/750V/03Ph/50hz. Make : <b>MAA LAXMI INDUSTRIES</b>	As per spec No EDTS 105,Rev `e' Am-2	<b>02 sets</b>
33.	Feeder junction boxes. Make : <b>MAA LAXMI INDUSTRIES</b>	EDML 020,Rev-I	<b>02</b>
34.	Wheel set earthing equipment. Make : <b>CHANDA &amp; CHANDA</b>	EDTS101,REV-C,AM-1	<b>02</b>
35.	Wheel Slide Protection System (WSP) Make: <b>KNORR</b> &Sr no : <b>0114321307</b>	M/s : <b>KNORR</b>	<b>01 set</b>
36.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : <b>SUPER REFRIGRATION</b>	As per spec no EDTS 139, Rev- E ,Sec II.	<b>01</b>

	
<b>SSE/EL/QC</b>	<b>DyCEE(P)/RCF/RBL</b>

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