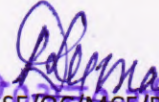
		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली			DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018	
ROLLING STOCK CERTIFICATE (DEEN DAYALU) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1671						
RLY	SWR	COACH NO	201635/C	DATE OF DISPATCH		20-Feb-20
Type	LWS	Shell No.	96219	DISPATCH TO	Sr.DME/MYS	FUR.NO. DDG-315
1. Railway Board's Order No. : 2019/M(C)/142/2, DATED-03-06-2019 2. TARE WEIGHT OF COACH : 40.66 Tonnes 3. Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL 4. Special feature:						
S NO	DESCRIPTION				MAKE/SUPPLIER	
A	Cushion transverse side luggage rack which can serve as seat during rush				MCF/RBL	
B	Honey comb partition frame.				MCF/RBL	
C	DGFRP/GFRE paneling.				MCF/RBL	
D	Lavatory with DGFRP/GFRE paneling.				MCF/RBL	
E	Additional Hand hold.				MCF/RBL	
F	Counter top wash basin.				MCF/RBL	
G	Gel coating & Anti Graffiti measures.				M/S-VIBGYOR	
H	Air spring in secondary suspension (capacity-140KN).				M/s-TAYAL&CO	
I	Fire Extinguishers				M/s-CHIRAG INDUSTRIES HR	
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)					
K-	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	1100/1103
6. TRACEABILITY OF SHELL ITEMS:						
S NO	ITEM		MAKE/SUPPLIER	SERIAL NO		
1	Under frame	Front	PP END	M/S-OMAX AUTO LTD	38	
		Part	NPP END	M/S-OMAX AUTO LTD	38	
		Complete	M/S-OMAX AUTO LTD	38		
2	Lav. side wall		M/S-DTL PUNE	LAV.1	LAV.2	
			M/S-DTL PUNE	LAV.3	LAV.4	
3	Side wall	LH SIDE		MCFRBL-CONT.V4U	84/01	
		RH SIDE		MCFRBL-CONT.V4U	84/02	
4	End wall	PP END		M/S-OMAX REWARI		
		NPP END		M/S-OMAX REWARI		
5	Roof		MCF/CONT	24		
6	Centre Buffer Coupler		M/S-FRONTIER LTD	PP END	06P2	NPP END 36P2
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 .		6 – 10 sec.	08sec	
		Max. pressure in BC		3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²	
		All Brake are applied		OK	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	DATE OF COMPLETION
1	Paint	P.U	VIBGYOR	M/S-VIBGYOR	76/90	27-01-2020
2	Insulation	Satisfactory				


वरिष्ठ निरीक्षक
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, रायबरेली (मालमज)



ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1671

RLY	S	W	R	-	Coach No.	2	0	1	6	3	5	/	C	-	DATE OF DISPATCH	2	0	0	2	2	0	2	0
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DISPATCH	Sr.DME/MYS	Type	L	W	S	-	Shell No.	9	6	2	1	9	FUR NO	DDG-315
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	192769				192770			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-090				WIL-073			
Bolster no.	AMIT-136				AMIT-128			
Axle No	19 P -1345 RWF		19 N - 4505 RWF		19 P-1329 RWF		19 P- 1715 RWF	
Wheel Dia	917.298	917.264	917.36	917.37	917.369	917.332	917.347	917.334
Wheel Disc No	TZ 07-19 66890-9RR7	TZ 07-19 64413-9RP4	TZ 06-19 51953-9PJ6	TZ 06-19 51967-9PJ6	TZ 07-19 66799-9RR7	TZ 07-19 69188-9RP5	TZ 07-19 65131-9RP5	TZ 07-19 65117-9RB5
R.B. Nos.	09-19 31378	10-19 40022	09-19 31437	08-19 28205	08-19 28275	10-19 39553	08-19 28336	08-19 28222
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL & CO. SR.NO- 10-19 4978	TAYAL & CO. SR.NO- 10-19 4988	TAYAL & CO. SR.NO- 10-19 5037	TAYAL & CO. SR.NO- 10-19 5017

11. TRACEABILITY 90F BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	283002,279813	283160,280187
2.	Primary outer Spring	CMGBD	10-19 F07-873(1068,10191123,1014,)	10-19 F07-873(1007,1072,1037,1053)
3.	Primary Inner Spring	CMGBD	10-19 F06-842(218,254,331,867)	10-19 F06-842(89,275,179,459)
4.	Primary Damper	IAI	11-19 (282113,282790,281918,281819)	11-19 (281582,281006,281203,281042)
5.	Secondary Damper	IAI	11-19(283361,283515)	11-19(283352,283313)
6.	Lateral Damper	KONI	04-19 - 02016	04-19 - 01809
7.	Brake Cylinder	KBI	C(1094,1086)-K-29, B(99429940)-K-29	C(1034,1087)-K-29, B(9948,9943)-K-29
8.	Brake Caliper	KBI	B(7776,7821,7819,7778)-29	B(7730,7834,7822,7777)-29
9.	Brake Disc	FAV	12-19(7648,7647,7100,7179)D133561-300	12-19(7280,7279,7277,7278)D133561-300
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19-B7122, 16-19-B7333	16-19-B7171, 16-19-B7456
17.	Check Valve	KNORR	07-19 20227	07-19 20348
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	KUMAR/SF	608,570,478,814	671,549,616,538
22.	Control Arm Lower	KUMAR/SF	412,388,255,676	582,498,385,379
23.	Phonic Wheel		K-10-19, K-10-19	K-10-19, K-10-19

Signature of SSE/Bogie/QC





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 (DEEN DAYALU)

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1671

RLY	SWR	COACH NO	201635/C				
Type	LWS	Shell No.	96219	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	20-Feb-20
						FUR.NO.	DDG-315

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S- KBI	
2	Distribution valve	M/S- KBI	4095-42/19
3	Pull box	M/S- KBI	2019K9282
4	FIBA	M/S- KBI	
5	Foot Step	M/S-SSPL FARIDABAD	7089/29,7947/29
6	Decoupling arrangement	M/S-KOHINOOR MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-RESPONSIV LTD DELHI	
9	Lavatory inlay	M/S-SEEMA BHOPAL	
10	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
11	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
12	Gangway bridge mounting (PPE)	M/s-HARE KRISHNA KXH	
13	Gangway bridge mounting (NPPE)	M/s-HARE KRISHNA KXH	
14	Body Side Window	M/S-EXCEL COMPOSITE PVT LTD KOLKATA	
15	Emergency Window	M/S-FIBRO PLASTIC HOOGHLY WB	
16	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
17	Roof Ceiling	MCF/RBL (GFRE)	
18	Door way /gang way ceiling	MCF/RBL (GFRE/DGFRE)	
19	Body Side Doors	M/S-JBM FARIDABAD	
20	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
22	Bio Tank	M/S- JSL LIFE STYLE LTD.	
23	Pressurized flushing(ele.pneu.)	M/S-IMI	
24	Over head water tank (4x390L)	M/S-RAIL FAB-02,AMIT MOHALI-02	
25	Bib cock/controlled discharge tap	M/S-EAUSER PVT LTD GURGAON	
26	Lavatory Doors	M/S-J.R INDUSTRIES JALANDHAR	
27	Fire Extinguisher	M/s-CHIRAG INDUSTRIES HR	
28	Water purified	N/A	5378/5236
29	Seat & Berth	M/S-OVPL MUMBAI	
30	Luggage Rack	M/S-LUCKY ENT.GURUGRAM	
31	Light Luggage Rack	N/A	
32	Ventury grill	N/A	
33	RFID	N/A	

Deena
SSE/QC/MCF/RBL
वार 0अनु 0 अभियंता

गुणवत्ता विभाग
रे 0डि 0का 0, रायबरेली (लाल गंज)



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 (DEEN DAYALU)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1671

RLY	SWR	COACH NO	201635/C				
Type	LWS	Shell No.	96219	DISPATCH TO	Sr.DME/MYS	DATE OF DISPATCH	20-Feb-20
						FUR.NO.	DDG-315

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

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 qualityrcfbl@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

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लाहगंज)

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 18.01.2017

FOR ELECTRICAL ITEMS**ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES**

PAGE 1 OF 3

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG NON AC GS COACHES					
SHELL/COACH NO		201635/C		TYPE COACH	
RAILWAY		SWR		ELECT.FIT DATE	
		14-02-2020		FUR.NO	
				DDG-315	
Sr no	Description of test	Remarks			
2.	LIGHTS, CHARGING SOCKETS	OK			
3.	RAILWAY CARRIAGE FAN	OK			
4.	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK			
5.	WORKING OF 9 KVA TRANSFORMER	OK			
6.	WORKING OF REGULATED BATTERY CHARGER	OK			
7.	SAFETIES :				
7.1.	FUSES AND THEIR RATING	OK			
7.2.	CONTROL CIRCUIT	OK			
7.3.	POWER CIRCUIT	OK			

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES

PAGE 2 OF 3

01.	Switch board cabinet Make : TRINITRON On Board Sr no : 19/07/TCS/MCF/3436/355/0099 HT Panel Sr no : 19/07/TCS/MCF/3436/355/0099	EDTS 333, Rev `01'Am-1	01
02	Emergency light system for EOG type coaches (AEL), Make : INTEG ELECT.	EDTS 151,Rev -c Am-1 & 2	04
03.	Provision & Mounting of PACIL Assly. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-I Drg no. LW 76098.	02
04.	Fitment of Switch Plate Assly (Cabin Side) Make : SSK	EDML 127,Rev-1& DRG NO 4248ALT-a	10
05.	Fitment of Switch Plate Assly (Corridor Side) Make : SSK	EDML 127,Rev-1 & DRG NO 4249 ALT-a	10
06.	Fitment of Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make : LIGHT ENGG.	IS 6680/92,First Rev, RCF Amdt 4, Col I, Ty XI, RCF Cor I.	30
07.	Provision of Cabin, Corridor, doorway and Gangway Lights. Make: ENSAVE	As per RDSO/PE/SPEC/TL- 0091(REV-1) TYPE B-1	28
08.	Provision & Mounting of Lavatory Light Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091 -2016,REV-01, TYPE-D & Drg no. LW 76092.	04

[Signature]

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG NONAC DD COACHES

PAGE 3 OF 3

09.	Battery fuse box +ve Make : RICHMOND	LW 71001,Alt-F	01
10	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
11.	Regulated battery charger Make : SIGNOTRON Sr no: 09190455	As per RDSO/pe/spec/ac/0129, Rev.-1 (2009)	01
12.	9KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-2716	As per RDSO/PE/SPEC/TL 0158,2010, Rev`0', TypeI.	01
13.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e' Am-3 TYPE-2	01 set
14.	Feeder junction boxes. Make : RSI	EDTS-328 REV-C	01 set
15.	Wheel set earthling equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02 sets
16.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119362758	M/s : KNORR	01 set
17.	110V,120AH,VRLA SMF BATTERY SET WITH 19 MONOBLOCK (6V EACH) PRECHARGED,WIHI MODIFIED TRAY TOSKED-644 Make : HBL Lug date : 12/19	RDSO/pe/spec/ac-0009 rev-1- 2008 amdt-1	01 set
18.	Battery box for LHB coaches. Make : HITECH	CC 91205	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आपरेटिंग/लागू/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, Sr. Electrical Engineer / RCF / RBL

