

		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 REV NO: 02 DATE: 28-05-2021	
ROLLING STOCK CERTIFICATE (NON AC COACH)					
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-2023/670/8971					
RLY	NFR	COACH NO	226942/C	DISPATCH TO	DATE OF DISPATCH
Type	LWSCN1	Shell No.	SCN-22088	SR.DME/C&W/GHY	FUR.NO.
1	Railway Board's Order No. : 2022/M (C)142/2 DT.-28.03.2022				LSCN-1932
2	Tare Weight & Carrying Capacity of Coach :				
S.N	COACH TYPE	LWSCN1	LWS	LWSCZ	LDLRL
i	Tare Weight	41.24	40.66	40.5	38.19
ii	Seating	80	100	120	36
iii	Sleeping	80	NIL	NIL	2
iv	Luggage	NIL	NIL	NIL	4
3	Special feature:				
S.N	DESCRIPTION				MAKE/SUPPLIER
i	Epoxy flooring in lavatory				M/S-ACME INDIA
ii	Anti slip friendly Grab Bar				M/S-ACME INDIA
iii	Provision of Health Faucet in lavatories				M/S-ACME INDIA
iv	Washbasin counter Top (Corian of Duport or Montelli)				M/S-ACME INDIA
v	GFRE ceiling instead of NFTC				M/S-H F GLASS WORK VADODARA
vi	DGFRP panels instead of LP panels				M/S-ACME INDIA
vii	Honey Comb partition frame with DGFRP sheet instead of FRP sheet				M/S-ACME INDIA
viii	Venturi arrangement in lavatory				M/S-ACME INDIA
ix	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				
4	Smart feature: NIL				
5	SHELL LEADING DIMENSIONS:				
S.N	DESCRIPTION				DIMENSION (MM)
i	Maximum Length over body				23700
ii	Maximum Width over body				3240
iii	Maximum height from Rail Level				4039
iv	CBC height/Buffer Height from Rail level 1105 +0/-10				NPP/PP 1104/1105
6	TRACEABILITY OF SHELL ITEMS:				
S.N	ITEM	MAKE/SUPPLIER		SERIAL NO	
i	Under frame	Front	PP END	M/S-SICO	SCN-22088
		Part	NPP END	M/S-SICO	
		Complete		M/S-SICO	
ii	Lav. side wall			M/S- LANCER TECH.	LAV.1
				M/S- LANCER TECH.	LAV.2
					LAV.3
					LAV.4
iii	Side wall	LH SIDE		M/S-BBCT	12/01
		RH SIDE		M/S-BBCT	12/02
iv	End wall	PP END		M/S-M. SCOPE	1
		NPP END		M/S-M. SCOPE	33P3/13P1
v	Roof			M/S-DTL	1
vi	Centre Buffer Coupler			M/S-FRONTIER	NPP/PP
vii	Buffer			N/A	NPP/PP
7	AIR BRAKE TEST REPORT:				
S.N	ITEM	DESCRIPTION		SPEC. VALUE	OBSERVED
i	Full brake application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ² .		6 – 10 sec.	6.7 SEC
		Max. pressure in BC		3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied		OK	OK
ii	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.		No brake application	OK
iii	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.		Brake must apply	OK
iv	Handbrake(Parking brake)for generator car	1.Apply hand brake		1.Hand Bk. Indicator should be red	OK
		2.Release hand brake		2. Hand Bk. indicator should be green	OK
8	PAINTING DETAILS:				
S.N	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)	AVERAGE GLOSS VALUE SIDE WALL/END WALL
i	Paint	P.U	M/S-DEB PAINT	SUPPLY & APPLY	91/89
ii	Insulation-	Satisfactory		ANTIGRAFFITE COATING-	NA
9	COACH FURNISH DETAILS :				
S.N	ACTIVITIES	FIRM		TURNKEY/WORK CONTRACT/SUPPLY&APPLY	
i	Coach Furnishing	M/S-LAL BABA		TURNKEY	
ii	Air Brake	M/S-FLUID CONTROL & MARS		SUPPLY & APPLY	
iii	Bio toilet & flushing	M/S-VEDANSH ENTERPRISES		WORK CONTRACT	
vi	Epoxy in lav.	NA			
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		Modern Coach Factory Raebareilly		DOC NO.: MCF/RBL/QMF 8002		
		आधुनिक रेल डिब्बा कारखाना, रायबरेली		REV NO: 02 DATE: 28.05.2021		
ROLLING STOCK CERTIFICATE(NON AC COACH)						
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-2023/670/8971						
RLY	NFR	COACH NO	226942/C	DATE OF DISPATCH		19-Nov-22
Type	LWSCN1	Shell No.	SCN-22088	DISPATCH TO	SR.DME/C&W/GHY	FUR.NO. LSCN-1932
10	MODIFICATION (IF ANY)			: NIL		
11	DEVIATION (IF ANY)			: NIL		
12	ITEM FITTED ON THE COACH ON TRIAL			: NIL		
S.N	ITEM PARTICULARS			PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL
i						
13.A TRACEABILITY OF FURNISHING ITEMS:(common items for all coach)						
S.N	ITEM			MAKE/SUPPLIER	SERIAL NO(PP/NPP)	
i	Air Brake Module			M/S-FAIVELEY	2022-04-053BM	
ii	Distribution valve			M/S-FAIVELEY	2022-04-5555B	
iii	Pull box			M/S-KBI		
iv	FIBA			M/S-ESCORT	3626-05-2022, 3496-05-2022	
vi	Foot Step			M/S-SHANKER METAL WORKS KANPUR		
v	Decoupling arrangement			M/S-ELASTOMER INDUST. MUMBAI.		
vii	Floor board			M/S-TWPL INDS MUMBAI		
viii	PVC			M/S-RESPONSIVE INDUST. DELHI.		
ix	Lavatory inlay			M/S-SEEMA INDUST. BHOPAL		
x	UIC Vestibule (PPE)			M/S-KIRAN RUBBER PRODUCT PUNE.		
xi	UIC Vestibule (NPPE)			M/S-KIRAN RUBBER PRODUCT PUNE.		
xii	Gangway bridge mounting (PPE)			M/S-CUSMOS INDUST. MUMABI.		
xiii	Gangway bridge mounting (NPPE)			M/S-CUSMOS INDUST. MUMABI.		
xiv	Body Side Window			M/S-FRIEND INDUST. PUNE.		
xv	Emergency Window			M/S-SURESAFE INDUST. KOLKATA.		
xvi	Lavatory/hopper Window			M/S-AXSYS SOLUTION SIRMOUR HP.		
xvii	Roof Ceiling			M/S-HINDUSTAN FIBER GLASS VADODARA.		
xviii	Door way /gang way ceiling			M/S- RAIL TECH INDUST. KXH.		
xix	Lav. panel			M/S-ACME INDIA DELHI		
xx	Side wall panel			M/S-ACME INDIA DELHI		
xxi	Body Side Doors			M/S-SVARN INFRATEL PALWAL		
xxii	Vestibule Door(PPE)			M/S-KALSI INDS FARIDABAD		
xxiii	Vestibule Door(NPPE)			M/S-KALSI INDS FARIDABAD		
xxiv	Bio Tank			M/S-JSL LIFESTYLE LTD-2NO, UNIFAB-2NO		
xxv	Pressurized flushing (ele. Pneu.)			M/S-CEMCON		
xxvi	Auxiliary Water Tank			M/S-MANOJ ENTERPRISES MOHALI		
xxvii	Under Slung Water Tank (2X685L)			M/S-OASIS		
xxviii	Under Slung Water Tank (1X685L)			M/S-OASIS		
xxix	Health Faucet			NA		
xxx	Lotah Filler Tap			NA		
xxxi	Controlled discharge tap			M/S-AGMECO PVT.LTD.U.K.		
xxxii	Lavatory Modules			NA		
xxxiii	Lavatory Doors			M/S-JR INDS. JALANDHAR, JVR		
xxxiv	Fire Extinguisher			M/S-ACME INDIA DELHI		
xxxv	Seat & Berth			M/S-OVPL INDS MUMBAI		
xxxvi	Venturi grill			NA		
13.B TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)						
i	Partition panel			M/S-ACME INDIA DELHI		
ii	Partition pillar			NA		
iii	Water purifier			NA		
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	MODERN COACH FACTORY, RAEBARELI	DOC NO.: MCF/RBL/QMF 8002
	आधुनिक रेल डिब्बा कारखाना, रायबरेली	REV NO.: 02
		DATE: 28.05.2021

ROLLING STOCK CERTIFICATE -(NON AC COACH)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-23/670/8971

RLY	N	F	R	Coach No.	2	2	6	9	4	2	/	C	-	DATE OF DISPATCH	1	9	1	1	2	0	2	2
DISPATCH	Sr.DME/C&W /GHY			Type	L	W	S	C	N	1	Shell No.	2	2	0	8	8	-	FUR .NO	LSCN-1932			

14. DETAIL OF BOGIES:									
ITEMS	NPP Side				PP Side				
Bogie No	220929				220930				
Bogie Type	FIAT				FIAT				
Frame no.	MCF/RBL/LS-5 4303				MCF/RBL/LS-5 4444				
Bolster no.	MCF/RBL/LS-5 1981				MCF/RBL/LS-5 3871				
Axle No	03806 MSF		00986 MSF		22 L 2635 RWF			22 M 7941 RWF	
Wheel Dia	917.43	917.64	917.47	917.60	917.54	917.78	917.36	917.63	
Wheel Disc No	KLW 02-22 00118-220700	KLW 02-22 00097-220700	KLW 02-22 00102-220698	KLW 02-22 00125-220698	KLW 02-22 00282-220695	KLW 02-22 00173-220695	KLW 02-22 00110-220700	KLW 02-22 00210-220695	
R.B. Nos.	02-22 502084	01-22 400204	01-22 400515	02-22 502620	01-22 500631	01-22 400513	01-22 500111	01-22 501834	
CTRB Make	TIMKEN		TIMKEN		TIMKEN			TIMKEN	

15. SECONDARY SUSPENSION LOAD DEFLECTION VALUES : -				
DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	RESISTO FLEX Sr.NO.- 20-10 18355	RESISTO FLEX Sr.NO.- 20-10 18856	RESISTO FLEX Sr.NO.- 20-10 18157	RESISTO FLEX Sr.NO.- 20-10 18674

16. TRACEABILITY OF BOGIE ITEMS :-																						
S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.																			
			NPP SIDE										PP SIDE									
1.	Yaw Damper	IAI	AB-(99745,100010)										AB-(47824,99713)									
2.	Primary outer Spring	CMGBD	07-20-FO5-150-(442,103,323,241)										07-20-FO5-150-(85,433,518,493)									
3.	Primary Inner Spring	CMGBD	06-20-FO6-148-(37,211,220,153)										06-20-FO6-148-(92,533,198,33)									
4.	Primary Damper	IAI/GABRIAL	01-20(14214,14245,14745,14250)										01-20(14259,14220,14215,14237)									
5.	Secondary Damper	IAI	12-21-AB(72263,72667)										12-21 AB(72885,72867)									
6.	Lateral Damper	IAI	09-21 AB51929										09-21 AB51804									
7.	Brake Cylinder	FAV	22-03-(0580,607,0601,585)										22-03-(0112,304,308,0219)									
8.	Brake Caliper	FAV	22-03-(2015,2013,2014,2016)B										22-03-(1231,1229,1230,1232)B									
9.	Brake Disc	FAV	08-21(5853,5856,4761,47628)D137366-100										08-21-(8766,5767,4750,4747)D133561-300									
10.	Ball Joint Control Arm	GMT																				
11.	Lateral Bump Stop	GMT																				
12.	Traction Centre make	RNG																				
13.	Traction lever make	MK/JI																				
14.	Ball joint traction lever	PPI																				
15.	Ball joint traction centre	PPI																				
16.	Leveling Valve	ESCORT	07-22(4435,4001)										07-22(4431,4853)									
17.	Check Valve	ESCORT	07-22 1969										07-22 2282									
18.	Anti roll bar Make	SF/EMSON																				
19.	Roll Link make	SF+PPI																				
20.	Fork make	SF																				
21.	Control Arm Upper	SF	32,20,16,84										44,41,70 ,H47									
22.	Control Arm Lower	SF	H(25,27,28) 25										H(20,28,22) 18									
23.	Phonic Wheel	FAV	FT/UE/01-22										FT/UE/01-22									

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DEB PAINTS PVT. LIMITED

(An ISO 14001 : 2004 & ISO 9001 : 2008 Certified Co.)

Regd. Office & Factory : METHOPARA, P.O. : GANGANAGAR
KOLKATA - 700 132 (W.B.)

Phone : 2538-3209, 2538-5602,

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CIN No. : U24222WB1984PTC037257

WARRANTY CERTIFICATE

To,

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

Date:- 18-07-22

SUBJECT: -PERFORMANCE WARRANTY CERTIFICATE

REF: PO NO: 06211127102278 dated 20.12.2021

NAME OF WORK: SUPPLY AND APPLY OF PU PAINT FOR LHB TYPE COACHES

Dear Sir,

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

SLNO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION	TOP COAT GLOSS VALUE
08	LW SCN - SCN-22088	L SCN - 1932			02-07-22	90.86

The warranty is applicable from date of despatch against the below mention defects as per RDSO Specification no.M&C/PCN/100/2013.

Gloss level value of applied paint initial 85unit (on the date of painting) and minimum 80% 70% 60% of initial gloss after one year, two years, three years respectively from the date of application.

Decolonization of paint film.
Cracking of paint film
Peeling of paint film
Blistering of the paint film



Thanking You

For DEB PAINTS PVT LTD
Authorized Signatory

	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		226942/C
RAILWAY	NER	ELECT. FIT DATE	15-11-2022	MCF EUR. NO.	LSCN-1932	
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

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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.: RSI SWITCHGEAR On Board: 22/09/448285/17B HT Panel: 22/09/448285/17A	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 2794	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 : PA 22/05/1851 Pump 1: 22/04/6422 Pump 2: 22/04/6423	As per spec no. EDTS186,REV-A,AM-2	01 SET
05.	Provision & Mounting of Pump controller. Make: HIND SL.no.: C22/09/2526	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: ELECTRO EQUIPMENT Sr. no.: 08220105	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.-1)	01
07.	Provision of Feeder Junction Box Make : SIDWAL	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 : INTEG	As per LW 71001,Alt- H	01
10.	Battery fuse box -ve Make : SSK	As per LW 71002,Alt-I	01
11.	Provision of Battery boxes/ Cradles. Make: M/S MEENAKSHI	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 Sr. no.: 102897 TO 102915 Lug Date: 04/22	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01 SET

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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: AKG/KAPSONS	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 : AKG	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: RT VISION	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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-D. Drg. No. LW76092.	04
17.	Fitment of LED Light fittings for PACIL. Make: KAVERI	As per RDSO/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-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: SKS	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): PRIME ELECT. 2.(PP): PRIME ELECT.	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 PP: DARSHAN	EDTS101,REV-C,AM-1	01 SET
27.	Provision of Anti Skid Disk Brake System.(WSP) Make : FAIVELEY Sr no : I 6765	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 SET
28.	Emergency feed terminal. Make: ORIENTAL.	-----	05
29.	Battery charger terminal. Make: KAMLESH INDUSTRIES.	-----	01

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