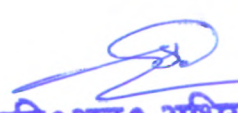
		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018		
ROLLING STOCK CERTIFICATE Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/1349						
RLY	WR	COACH NO	211314/C	DATE OF DISPATCH	31-Mar-21	
Type	LWLRMM	Shell No.	20Q013	DISPATCH TO	Sr.DME/C&W/MMCT	
				FUR.NO.	TeJ/LPC-13	
1. Railway Board's Order No. : 2020/M(C)/142/2 Dated: -24-12-2020 2. Tare Weight of Coach : 53.2 Tones 3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones						
4. Special feature: A- 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	1097/1099	
6. TRACEABILITY OF SHELL ITEMS:						
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO			
1	Under frame	Front PP END	M/S-OMAX AUTO	16		
		Part NPP END	M/S-OMAX AUTO	16		
		Complete	M/S-OMAX AUTO	16		
2	Lav. side wall	M/S-RAIL TECH KXH	LAV.1	-----	LAV.2	
		M/S-RAIL TECH KXH	LAV.3	-----	LAV.4	
3	Side wall	LH SIDE	MCF/RBL-V4U-LKO	44		
		RH SIDE	MCF/RBL-V4U-LKO	44		
4	End wall	PP END	M/S-DTL PUNE	-----		
		NPP END	M/S-DTL PUNE	-----		
5	Roof	M/S-AIR FLOW	35			
6	Centre Buffer Coupler	M/S-FRONTIER	NPP/PP	09P1	03P1	
7	Buffer	M/S-SIENA	NPP/PP	20Q013	N.A	
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.	07 sec.		
		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		
4	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 FIRE TESTING:						
S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE		
	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		
9. 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-VIIBGYOR (S&A)	76/88	13-Jul-20
2	Insulation	Satisfactory				


वरिष्ठ अधिकारी अभियंता
SSBYOC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



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/2020-21/ **1349**(TEJAS)

RLY	W	R	-	Coach No.	2	1	1	3	1	4	/	C	-	DATE OF DISPATCH	3	1	0	3	2	0	2	1
-----	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	Sr.DME/C&W/MMCT	Type	L	W	L	R	R	M	Shell No.	2	0	Q	0	1	3	FUR .NO	TEJ/LPC-13
----------	-----------------	------	---	---	---	---	---	---	-----------	---	---	---	---	---	---	---------	------------

9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202876				202875			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL/LS5-2811				MCF/RBL/LS5- 2854			
Bolster no.	MCF/RBL/LS5-3242				MCF/RBL/LS5- 3055			
Axle No	20 B- 8812 RWF		21C - 4471 RWF		21 C - 3546 RWF		21 C - 5817 RWF	
Wheel Dia	917.415	917.484	917.42	917.491	917.436	917.49	917.432	917.49
Wheel Disc No	TZ 09-20 29814-0TE6	TZ 09-20 29807-0TE6	TZ 09-20 26859-0SE9	TZ 09-20 26858-0SE9	TZ 09-20 26881-0SE9	TZ 09-20 26857-0SE9	TZ 09-20 29808-0TE6	TZ 09-20 29543-0SD4
R.B. Nos.	09-20 429634	09-20 429137	09-20 426087	09-20 428830	09-20 426181	09-20 429815	09-20 426334	06-20 433057
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-01-20 3765	TAYAL & CO Sr.NO-01-20 3714	TAYAL & CO Sr.NO-01-20 3815	TAYAL & CO Sr.NO-01-20 3785

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	338694,338624	337948,337832
2.	Primary outer Spring	CMGBD	11-20 F05-718 -(169,172,143,167)	11-20 F05-718 -(124,170,38,158)
3.	Primary Inner Spring	CMGBD	08-20 F04-387--(515,509,54,550)	08-20 F04-387--(530,631,499,216)
4.	Primary Damper	IAI	01-20 (299810,300763,320625,321791)	01-20 (300578,274176,298431,309747)
5.	Secondary Damper	KONI	04-19 (03401,03426)	04-19 (06634,03516)
6.	Lateral Damper	KONI	04-19 02150	04-19 02123
7.	Brake Cylinder	KBI	D(2031,0530,0532,2026)K29	C(2028,1997)K29,3520111090,3520111092
8.	Brake Caliper	KBI	A(4304,2646,2650,4303)-29	A(4302,4312)-29,3520131142,3520131155
9.	Brake Disc	KBI	24247101 0025-02/21,24247101 0026-02/21 24241024 0073-50/20,24243854 0001-50/20	24247102 0003-02/21,24247102 0004-02/21 24241022 0037-49/20,24241022 0039-49/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	BASANT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	FAV	E20-597,H20-760	H20-759,H20-529
17.	Check Valve	FAV	H20-330	H20-226
18.	Anti roll bar Make	SF		
19.	Roll Link make	RF/ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	SFL	H(68,82,296,82)	H109,152,H101,H274
22.	Control Arm Lower	SFL	153,46,778,66	50,114,381,8
23.	Phonic Wheel	KBI	K01-21,01-21	K01-21,01-21

Signature of SSE/Bogie/QC



Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002
REV NO: 01
DATE: 17.04.2018


ROLLING STOCK CERTIFICATE


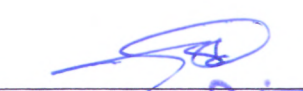
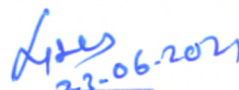

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/1349

RLY	WR	COACH NO	211314/C	DATE OF DISPATCH	31-Mar-21
Type	LWLRRM	Shell No.	20Q013	DISPATCH TO	Sr.DME/C&W/MMCT
				FUR.NO.	TeJ/LPC-13

13. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-KBI	0539-28/20
2	Distribution valve	M/S-KBI	2021B13116
3	Hand Brake Equipment	M/S-PLASTO POWER	
4	FIBA	M/S-KBI	11571/29,11610/29
5	Floor board	M/S-TWPL MUMBAI	
6	AL. Chequer Plate/Sheet	M/S-RAIL TECH KXH	
7	PVC	M/S-RESPONSIVE IND MUMBAI	
8	UIC Vestibule (NPPE)	M/S-ELASTOMER	
9	Foot Step	M/S- RCF/KXH(NON STOCK)	
10	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA KXH	
11	Body Side Window	M/S- SHATABDI SAFETY GLASS, VADODARA	
12	Roof Ceiling	M/S-P.D.STEEL PANCHKULA	
13	Lavatory/hopper Window	M/S- BIRCON GZB	
14	Automatic smoke & heat Detection with alarm System	M/S-SANROK	
15	Generator Room Ceiling	M/S-RAIL TECH KXH	
16	Hatch Door	M/S-RAIL TECH KXH	
17	AC Trough	M/S-BHARAT FIBRO LKO	
18	RMPU	M/S-INTEC ENGG.	
19	Luggage Sliding Door	M/S-GANESH MOHALI	
20	Body Side Doors	M/S- KBI	
21	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
22	Crew/Gen. Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
23	Crew/Guard Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
24	Bio Tank (01 No Lav.)	M/S-RAIL FAB KXH	
25	Auxiliary Water Tank(1x30l)	M/S-SHIVALIK FAST MOHALI	
26	Under Slung Water Tank (1x450L)	M/S-AMIT ENGG.MOHALI	
27	Fuel Tank (2x1540 L)	M/S-P.D.STEEL	
28	Health Faucet	M/S- KAPCO VALVES JUC	
29	Lotah Filler Tap	M/S- KAPCO VALVES JUC	
30	Bib cock	M/S-AGMECO PVT.LTD	
31	Lavatory Doors	M/S-HFGW VODODARA	
32	Seat & Berth	M/S-OVPL MUMBAI	
33	Luggage Rack	M/S-RAIL TECH KXH	
34	Folding Table	M/S-RAIL EXPERT LTD JUC	
35	Venturi grill	NIL	
36	RFID	NIL	


SSE/QC/MCF/RBL
वरिष्ठ अनुष्ठानिक अधिकारी
गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

		Modern Coach Factory Raebareilly 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/2020-21/1349					
RLY	WR	COACH NO	211314/C	DATE OF DISPATCH	
Type	LWLRRM	Shell No.	20Q013	DISPATCH TO	Sr.DME/C&W/MMCT
			FUR.NO.	TeJ/LPC-13	
14. MODIFICATION (IF ANY) : NIL					
15. DEVIATION (IF ANY) : NIL					
16. ITEM FITTED ON THE COACH ON TRIAL : NIL					
S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE &	
			Frequency	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:					
1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.					
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.					
3. 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.					
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.					
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com					
6. 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.					
 वरिष्ठ अधिकारी अभियंता SSE/QC/MCF/RBL गुणवत्ता विभाग मोडर्न कोच फैक्ट्री, रायबरेली (लालगंज)		 सहायक यंत्रिक इंजीनियर SME/AME/QC/MCF/RBL आर.रे.डि.का. रायबरेली MCF, RBL		 डी.सी.एम Dy.COM/MCF/RBL आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	



Vibgyor Paints & Chemicals Pondicherry

Office : Sri Balaji Apartments, 87/47, Harrington Road,
Shenoy Nagar, Chennai - 600 030.
Web : www.vibgyorpaintspondicherry.com



WARRANTY CERTIFICATE

To,

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

Date:- 09/03/2021

SUBJECT: -PERFORMANCE WARRANTY CERTIFICATE

REF: PO NO: 31061800101158 dated 20.08.2019

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

SL.NO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION
396	LWLRRM 209013	LPC(TES) 13	211314	WL	13/07/2020

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% 860N 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 Vibgyor paints & chemicals Pondicherry
Authorized Signatory



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 1 OF 6

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

TYPE COACH		LWLRRM	SHELL/COACH NO		211314/C	
RAILWAY		WR	ELECT.FIT DATE	27-03-2021	MCF FUR. NO	LPC(TEJAS)-13
Sr no	Description of tests					Remarks
1.0	REFERENCE SPECIFICATION : L 446					
1.1	AIR CONDITIONING TEST : ELPS/TP/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			11.45 Cub mtr/min		OK
3.2	Return Air			31.39 Cub mtr/min		OK
3.3	Exhaust Air			NIL Cub mtr/min		OK
3.4	Conditioned Air			43.14 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 : 20.4°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					----

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 2 OF 6

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	OK
9.0	LIGHT	OK
10.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
11.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
12.0	WORKING OF 60KVA TRANSFORMERS	OK
13.0	WORKING OF RBC/EBC.	OK
14.0	SAFETY :	--
14.1	OHP	OK
14.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
14.3	LP/HP GAUGE & TRIPPING	OK
14.4	HYGROSTAT & SENSORS.	OK
14.5	CONTROL CIRCUIT	OK
14.6	POWER CIRCUIT	OK
14.7	AEL,FEL & FOL RELAY	OK
14.8	UVR/OVR	OK
15.0	HOG CONTROL CIRCUIT	OK
16.0	FEEDER CONTACTORS & HOG CONTACTORS.	OK
17.0	BUS COUPLER	OK
18.0	SAFETY LOOP	OK
19.0	SMOKE TEST	OK
20.0	REFRIGERANT USED R 407C	OK

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 3 OF 6

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Provision of Terminal connector complete. Make: M/S INDIAN TELEPHONE & ELECT.	As per EDML-033, Rev.- D,MCF/RBL-Corr-2 or latest.	01 set
02.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 11/19	EDTS 129,Rev nil	01 set
03.	SET OF BATTERY FOR DA (A & B) (A)Make: CELTEK Lug date: 06/20 (B) Make: CELTEK Lug date: 06/20		02 sets
04.	Battery box for LHB coaches. Make: METAFIL	As per drg. No. 1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
05.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	02 set
06.	Switch Board Cabinet For 2 X 500 KVA DA set control. Make : ISG Sr no: PCP-MCF-19-08-0022	As per spec no. EDTS 103, Rev.- D,Amd-7,Corr-1(HOG Compliant) -01 no	01
07.	Switch Board Cabinet (Power Panel) Make : ISG Sr no: SBC-MCF-20-10-0201	As per spec no. RDSO/PE/SPEC/AC/0184- 2015(REV.0)	01
08.	Alternator "A" Make: STAMFORD Sr no : N20G 277705	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
09.	Diesel Engine "A" Make: CUMMINS Sr no : 25456254	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
10.	Control panel for Ventilator Fan Motor for Diesel Engine "A" Make: SYSTEMS Sr no: SSPC/EDTS110/T1/0819/76	As per spec no. EDTS 110,Rev- nil	01
11.	Ventilator Fan Motor for Diesel Engine "A" Make: ABB Sr no.1: 1830979 Make: ABB Sr.no.2: 1830968	As per spec no EDTS -102 REV-D,PART -A	02
12.	Control Panel for Radiator Fan Motor for Diesel Engine -A Make : BHASIN Sr no : 01208282/1	As per spec no. EDTS 104, Rev'A'	01
13.	Radiator Fan Motor for Diesel Engine -A Make: ABB Sr no : 3G1J19200001719872	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 4 OF 6

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	Alternator "B" Make: STAMFORD Sr no : N20G 277837	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
15.	Diesel Engine "B" Make: CUMMINS Sr no : 25456251	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
16.	Control panel for Ventilator Fan Motor for Diesel Engine "B". Make : SYSTEMS Sr no : SSPC/EDTS110/T1/0819/83	As per spec no. EDTS 110,Rev nil,AM-1.	01
17.	Ventilator Fan Motor for Diesel Engine "B" Make: ABB Sr no.1: 1696416 Make: ABB Sr no.2: 1696402	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
18.	Control Panel for Radiator Fan Motor for Diesel Engine "B" Make: ISG Sr no : CPRF-MCF-19-07-0024	As per spec no. EDTS 114, Rev.-B	01
19.	Radiator Fan Motor for Diesel Engine "B" Make: ABB Sr no : 3G1J20080001804983	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
20.	24V DC starter Battery Charger for 500KVA DA set. Make: EI Sr.no.: 4305-11/19	As per Spec no. 106 Rev.- Nil,AM-1 or latest.	01
21.	Starter Battery Charging Control Panel (S-40) Make : LEC Sr no: 2019/0015	As per spec no. EDTS 116,Rev nil	01
22.	Feeder Junction box. Make: MV ELECTRO SYSTEMS	As per EDML-021,Rev.-L.	01 set
23.	Provision of Single Inlet Radial Blower, 415V/03Ph/185W/ 1045 Cub mtr/hr discharge from S1 & S2 & Lavatory. Make: INTEG	As per EDTS 331,Corr-3,Type-II. Cat. no. 64D180BD,Rev nil.	01
24.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt-G	01
25.	Battery fuse box -ve Make : AECO	As per LW 71002,Alt-G	01
26.	IVC dummy Socket assembly Make: PRIME ELECT.	As per Drg. No. LW71302,Alt-nil	03
27.	Provision of 60KVA TFR Make: VIMAL Sr no: 1. VTC-R-3089-LHB-4125 Make: WAVES Sr no: A. W60KB21337 Make: WAVES Sr no: B. W60KB21312	As per spec no. RDSO/PE/SPEC/AC/0080-2007,Rev.-1 with RCF/KXH Corr. 1 & 2. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 5 OF 6

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
28.	Regulated battery charger(RBC CUM EBC) Make : SIGNOTRON Sr no: 09190366	RDSO/PE/SPEC/AC/0183 (REV '1')	01
29.	Capacitor Bank. Make : ISG Sr no : CB-MCF-19-07-0135	As Per EDML 130,Type-II,Rev.-1,Cor-3	01
30.	Mounting of Pump equipment with pump box.	As per drg no. 1.10113.0.30.100.001, Alt`a'	ok
31.	Provision of Pump equipment with PLC controller & pump box Make: KIND Pump assly Sr. no: KIND/ASY/0049 Pump 1 Sr.no.: 19060297 Pump 2 Sr.no.: 19060298 P/Contrl.: 20/03/149-HIND	As per spec no. EDTS 186 Rev.-A,AM-2,Corr-2 or latest.	01 Set
32.	Provision & mounting of Doorway/ Gangway light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	20
33.	Provision of Lavatory Light Fitting assembly. Make: ENSAVE	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D As per drg no. LW 76001,Alt nil.	01
34.	Provision of Cable Jacket ,Size Nominal width 25mm ,Length -1000 mm	As per drg no. EDTS 0138,Rev-nil,Corr.-1 Item 9	ok
35.	Provision of PACIL Assly. Make: DR AUTO	As per drg no. LW 76005,Alt nil.	02
36.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: ARSH	As per RDSO/PE/SPEC/TL/0021-2005,Rev-3,AM-1 or latest.	01
37.	Provision of Cable Binders.	As per CC76129 or as approved of OEM by MCF/RCF .	ok
38.	Provision of Razor socket. Make: SSK	As per cat no EDML 047 ,Rev nil.	01
39.	Provision of Smoke Detector Unit. Make: AG RAIL Sr no: 1159	As per spec EDTS 087,Rev`B',Cor-1	01 Set
40.	Provision of Tail light LED Type with flashing unit and VHF charging socket. Make: DEW COMPANY	As per EDTS 215,AM-1.Drg. No.73200 alt c	01 Set
41.	Switch plate assembly Make: SSK	As per EDML-045,Corr-I(pl. no. 33640180)	01

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE:10.01.2020

PAGE 6 OF 6

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
42.	Mounting of inter Vehicle coupler	As per drg no 1.10113.0.74.000.001 Alt nil.	ok
43.	Provision of High Capacity Inter – Vehicular Coupler Unit(ZS Coupling) (500 A,750 V,3 ph,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
44.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: M.V	As per 1948036 /UIB4125-6.	02
45.	Provision of Wheel Set Earthing Equipment. Make NPP : PRIME ELECT. PP : PRIME ELECT.	As per spec no. EDTS 101 ,Rev.-C,AM-1,Corr-6.	01 Set
46.	Public addressing System Make: AHUJA	EDTS -173,Rev-B or latest	01 Set
47.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0120155004	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 Set
48.	Roof mounted AC Package unit Make : INTEC PP: 20H 1951 CPU No: 200723430-SIDWAL	RDSO/PE/SPEC/AC/0061 2005,REV-1,TYPE-1	01
49.	Provision of reliable wired Train bus in EOG/HOG coaches for hauling of trains by Loco's in Push-Pull mode. Make: SCHALT BAU /HARTING	RDSO spec. no. RDSO/PE/MS/AC/0080-2019 (Rev.-1)	01 Set

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

