



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/2020-21/336

RLY	NWR	COACH NO	192219/C	DATE OF DISPATCH	22-08-2020
Type	LWLRRM	Shell No.	98106	DISPATCH TO	SSE/C&W/JP
				FUR.NO.	LPC-320

1. Railway Board's Order No.	: 2018/M(C)/142/2 Dated: - 14-09-2018
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
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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	1096/1105

6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front	PP END	M/S-OMAX AUTO LTD	09		
		Part	NPP END	M/S-OMAX AUTO LTD	09		
		Complete		M/S-OMAX AUTO LTD	09		
2	Lav. side wall			M/S-KIPL HYDRABAD	LAV.1		LAV.2
				M/S-KIPL HYDRABAD	LAV.3		LAV.4
3	Side wall	LH SIDE		MCFRBL-CONT.V4U	39/01		
		RH SIDE		MCFRBL-CONT.V4U	39/02		
4	End wall	PP END		M/S-GANESH MOHALI			
		NPP END		M/S-GANESH MOHALI			
5	Roof	M/S-INDIRA			15		
6	Centre Buffer Coupler	M/S-SANROK ENT			PP/NPP	1972	1974
7	Buffer	M/S-RANEKA INDUS			PP/NPP	N.A	98106

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.	08 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-VIBGYOR	89/87	11-06-2020
2	Insulation			Satisfactory		

SSE/QC/MCF/RBL

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गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	N	W	R	Coach No.	1	9	2	2	1	9	/	C	-	DATE OF DISPATCH	2	2	0	8	2	0	2	0
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DISPATCH	SSE/C&W/JP	Type	L	W	L	R	R	M	Shell No.	9	8	1	0	6	FUR .NO	LPC-320
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	200322				200321			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-2318				KANSAL-35			
Bolster no.	APEX-209				APEX-215			
Axle No	20 Y - 5770 RWF		20 Y-8110 RWF		20 V -6006 RWF		20V-7623 RWF	
Wheel Dia	917.63	917.64	917.60	917.59	917.57	917.61	917.63	917.60
Wheel Disc No	TZ 12-19 91385-9WL8	TZ 12-19 97438-9XH4	TZ 12-19 94943-9WM5	TZ 12-19 92921-9XH8	TZ 12-19 92936-9XH6	TZ 12-19 92567-9XG5	TZ 12-19 94239-9WL4	TZ 08-19 73994-9SL4
R.B. Nos.	12-19 39175	01-20 401051	12-19 45133	01-20 403581	01-20 405347	01-20 403783	12-19 39323	01-20 401012
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	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMGBD11-19- F16-980-54	CMAFI07-19- 8837-113	CMGBD11-19- F16-978-43	CMAFI07-19- 8836-111	CMAFI08-19- 7146-43	CMGBD08-19-F15- 395-103-	CMAFI08-19- 7146-46	CMGBD08-19- F15-395-113
Compressed Ht. at Tested Load	511	469	511	469	509	467	509	468
Alignment deviation (mm)	22	14	21	12	12	15	10	14

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	278414,279404	278429,278402
2.	Primary outer Spring	CMGBD	01-20 F05-774-(47,13,4,41)	01-20 F05-402-(5,45,50,10)
3.	Primary Inner Spring	CMFAJ	01-20 7143-(612,610,614,654)	01-20 7143-(609,659,652,651)
4.	Primary Damper	GABRIEL	12-19 (14408,14404,14421,14415)	12-19 (14409,14414,14399,14402)
5.	Secondary Damper	GABRIEL	12-19(3644,3671)	12-19(3852,3676)
6.	Lateral Damper	KONI	03-19 00205	03-19 01991
7.	Brake Cylinder	KBI	C(6409,5083,5110,6391)K29	C(6378,3519480927,3519480902,6358)K29,
8.	Brake Caliper	KBI	A(3108,1631,1687,3073)-29	A(3107,3519490912,3519490898,3080)-29
9.	Brake Disc	KBI	24217811 0048-08/20,24217809 0080-08/20 24217796 0076-06/20,24217796 0077-06/20	24217797 0078-06/20,24217796 0072-06/20 24217809 0077-08/20,24217811 0047-08/20
10.	Ball Joint Control Arm	AR/ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	JUR+GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	111019-3,121019-2,121019-2,161019-1	261119-1,151119-1,121019-2,110120-1
22.	Control Arm Lower	RVE	1919CC77,080121-1,391219-3,090213-3	090120-2,RVE,090120-3 SF-846
23.	Phonic Wheel	KBI	K06-20	K06-20

Signature of SSE/Bogie/QC





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13. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-KBI	0513-18/20
2	Distribution valve	M/S-KBI	2020D10981
3	Hand Brake Equipment	M/S-PLASTO POWER SAINGUR	
4	FIBA	NA	
5	Foot Step	M/S-SUPER SPARK PVT.LTD.FARIDABAD	
6	Floor board	M/S-TWPL MUMBAI	
7	PVC	M/S-RESPONSIVE POLYFILM GZB	
8	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
9	Gangway bridge mounting (NPPE)	M/S-SUNCREST KOLKATA	
10	AL. Chequer Plate/Sheet	M/S-RAIL TECH KXH	
11	Body Side Window	M/S-SHATABDHI SAFETY GLASS, VADODARA	
12	Lavatory/hopper Window	M/S-SHATABDHI SAFETY GLASS, VADODARA	
13	Roof Ceiling	M/S-P.D.STEELS PANCHKULA	
14	Generator Room Ceiling	M/S-RAIL TECH KXH	
15	RMPU	M/S-AMIT ENGG	
16	AC Trough	M/S-CMT VADODRA	
17	Luggage Sliding Door	M/S-SICO MOHALI	
18	Hatch Door	M/S-RAIL TECH KXH	
19	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
20	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21	Crew/Gen. Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
22	Crew/Guard Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
23	Bio Tank (01 No Lav.)	M/S-RAIL FAB KAPURTHALA	
24	Auxiliary Water Tank(1x30L)	M/S-OASIS	
25	Under Slung Water Tank (1x450L)	M/S-OASIS	
26	Fuel Tank (2x1540 L)	M/S-P.D.STEELS	
27	Health Faucet	NA	
28	Lotah Filler Tap	M/S-KAPCO VALVES JALANDHAR	
29	Bib cock	M/S-AGMECO PVT LTD UK	
30	Lavatory Doors	M/S-KALSI (P) LTD LUDHIANA	
31	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENTERPRISES FARIDABAD	
32	Seat & Berth	M/S-OVPL MUMBAI	
33	Luggage Rack	M/S-RAIL FAB KXH	
34	Folding Table	M/S-RAIL EXPERT (P) LTD JUC	
35	Ventury grill	N/A	
36	RFID	N/A	

SSE

SSE/QC/MCF/RBL

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				FUR.NO.	LPC-320

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 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:

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 qualitycrfbl@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.

SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

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गुणवत्ता विभाग
रेडिओका, रायबरेली (लालागंज)

Assistant Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly



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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		LWLRRM		SHELL/COACH NO		192219/C	
RAILWAY		NWR	ELECT.FIT DATE	19-08-2020	MCF FUR. NO		LPC-320
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			14.58 Cub mtr/min		OK	
3.2	Return Air			29.50 Cub mtr/min		OK	
3.3	Exhaust Air			NIL Cub mtr/min		OK	
3.4	Conditioned Air			61.94 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 : 21.3°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
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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	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

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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 : 06/19	EDTS 129,Rev nil	01 set
03.	SET OF BATTERY FOR DA (A & B) (A)Make: CELTEK Lug date: 03/19 (B) Make: CELTEK Lug date: 03/19		02 sets
04.	Battery box for LHB coaches. Make: HITECH	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-20-03-0006	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-20-03-0142	As per spec no. RDSO/PE/SPEC/AC/0184- 2015(REV.0)	01
08.	Alternator "A" Make: STAMFORD Sr no : N20E 226173	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
09.	Diesel Engine "A" Make: CUMMINS Sr no : 25455323	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: BHASIN Sr no: 08197940/1	As per spec no. EDTS 110,Rev- nil	01
11.	Ventilator Fan Motor for Diesel Engine "A" Make: ABB Sr no.1: 1696467 Make: ABB Sr.no.2: 1697788	As per spec no EDTS -102 REV-D,PART -A	02
12.	Control Panel for Radiator Fan Motor for Diesel Engine -A Make : ISG Sr no : CPRF-MCF-19-07-0041	As per spec no. EDTS 104, Rev'A'	01
13.	Radiator Fan Motor for Diesel Engine -A Make: ABB Sr no : 3G1J19200001719831	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	Alternator "B" Make: STAMFORD Sr no : N20C 104339	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
15.	Diesel Engine "B" Make: CUMMINS Sr no : 25455327	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 : BHASIN Sr no : 08197940/2	As per spec no. EDTS 110,Rev nil,AM-1.	01
17.	Ventilator Fan Motor for Diesel Engine "B" Make: ABB Sr no.1: 1696390 Make: ABB Sr no.2: 1696459	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-19-07-0041	As per spec no. EDTS 114, Rev.-B	01
19.	Radiator Fan Motor for Diesel Engine "B" Make: ABB Sr no : 3G1J19270001736474	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
20.	24V DC starter Battery Charger for 500KVA DA set. Make: WAVES Sr.no.: WSBCL 191308	As per Spec no. 106 Rev.- Nil,AM-1 or latest.	01
21.	Starter Battery Charging Control Panel (S-40) Make : SYSTEMS Sr no: SSPC/EDTS116/MCF/0819/06	As per spec no. EDTS 116,Rev nil	01
22.	Feeder Junction box. Make: MV	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 : RICHMOND ENTERPRISES	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-4033 Make: VIMAL Sr no: A. VTC-R-3089-LHB-4039 Make: VIMAL Sr no: B. VTC-R-3089-LHB-4027	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

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Sr no	Description	Drg/Spec no.	Quantity per Coach
28.	Regulated battery charger(RBC CUM EBC) Make : SIGNOTRON Sr no: 06201497	RDSO/PE/SPEC/AC/0183 (REV '1')	01
29.	Capacitor Bank. Make : NEC Sr no : 2019100747	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: GEM Pump assly Sr. no: 20070063 Pump 1 Sr.no.: 20070125 Pump 2 Sr.no.: 20070126 P/Contrl.: 19120150-KIND	As per spec no. EDTS 186 Rev.-A,AM-2,Corr-2 or latest.	01 Set
32.	Provision & mounting of Doorway/ Gangway light Make : FIAM	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	20
33.	Provision of Lavatory Light Fitting assembly. Make: RT VISION	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: VOYAGER INDUSTRIES	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: 1144	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
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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: MV	As per 1948036 /UIB4125-6.	02
45.	Provision of Wheel Set Earthing Equipment. Make NPP : PRIME ELECT. PP : DARSHAN ENTERPRISES	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 : 0120094395	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 Set
48.	Roof mounted AC Package unit Make : AMIT ENGG. PP: 3990 I CPU No: AE 20.02.418	RDSO/PE/SPEC/AC/0061 2005,REV-1,TYPE-1	01

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आ०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL स० कार्य प्रबन्धक / विद्युत आ०रे०डि०का० / रायबरेली A.W.M./Electrical/MCF/RBL