



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/2020-21/833

RLY	CR	COACH NO	205629/C	DATE OF DISPATCH	23-Dec-20
Type	LWACCN	Shell No.	20C207	DISPATCH TO	SSE/C&W/WB/BB
				FUR.NO.	L3T-1606

1.	Railway Board's Order No.	:	2020/M(C)142/2, DATE-24.06.2020
2.	Tare Weight of Coach	:	45.6 Tonnes
3.	Carrying Capacity	:	(a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL
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
	B-Venturi arrangement in lavatory -M/S-HFGW VADODARA		
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	4250
4	CBC height/Buffer height from Rail level 1105 +0/-10	NPP/PP 1104/1104

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-OMAX AUTOS	653
		Part NPP END M/S-OMAX AUTOS	658
	Complete	MCFRBL-V4U TECHIE	20C207
2	Lav. side wall	M/S-M.M.DHARWAD LAV.1	----- LAV.2 -----
		M/S-M.M.DHARWAD LAV.3	----- LAV.4 -----
3	Side wall	LH SIDE MCFRBL	405
		RH SIDE MCFRBL	405
4	End wall	PP END M/S-OMAX REWARI	-----
		NPP END PP END M/S-OMAX REWARI	-----
5	Roof	M/S-PIL	95
6	Centre Buffer Coupler	M/S-ESCORTS	NPP/PP 5771/5682

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

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 WOW(S&A)	75/95	17-Dec-20
2	Insulation			Satisfactory		

Rajima
08/02/2021
SSE/QC/MCF/RBL

वरिष्ठ अनु ० अभियंता
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

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RLY	-	C	R	Coach No.	2	0	5	6	2	9	/	C	-	DATE OF DISPATCH	2	3	1	2	2	0	2	0
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DISPATCH	SSE/C&W/WB/BB	Type	L	W	A	C	C	N	Shell No.	2	0	C	2	0	7	FUR NO	L3T-1606
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	201924				201923			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX - 120				VS - 2011			
Bolster no.	APEX-332				APEX -333			
Axle No	20 A - 3184 RWF	20 A - 3310 RWF		20 Y - 3377 RWF		20 A - 8474 RWF		
Wheel Dia	917.39	917.38	917.39	917.42	917.41	917.38	917.35	917.37
Wheel Disc No	TZ 12-18 13834-8XH0	TZ 12-18 13607-8WM9	TZ 05-19 49301-9PG9	TZ 05-19 49307-9PG9	TZ 04-19 34906-9MJ3	TZ 04-19 34907-9MJ3	TZ 05-19 50517-9PE7	TZ 12-18 13833-8XH0
R.B. Nos.	06-20 414792	07-20 416365	07-20 417396	07-20 418135	07-20 415845	07-20 416032	06-20 410888	07-20 416019
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.	CMGBD 12-19 F16-980-125	CMAFJ 01-20 9513-252	CMGBD 12-19 F16-980-116	CMAFJ 01-20 9513-223	CMGBD 12-19 F16-981-119	CMAFJ 01-20 9513-224	CMGBD 12-19 F16-981-100	CMAFJ 01-20 9513-169
Compressed Ht. at Tested Load	516	468	515	468	510	468	510	467
Alignment deviation (mm)	20	5	21	5	24	15	23	15

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	6637,6626	6836,6595
2.	Primary outer Spring	CMAFJ	07-20 7411-(362,368,363,365)	07-20 7411-(371,419,366,418)
3.	Primary Inner Spring	CMAFJ	07-20 7143-(410,342,501,309)	07-20 7143-(494,481,498,497)
4.	Primary Damper	GABRIEL	03-20 (18901,18895,18885,18883)	03-20-18094, 02-20 (18875,18871,18903)
5.	Secondary Damper	KONI	04-19 (06497,06481)	04-19 (06500,06746)
6.	Lateral Damper	KONI	03-19 01871	03-19 02100
7.	Brake Cylinder	KBI	D(0919,0703)-K-29 ,C(9515,9299)-K-29	D(0706,0775)-K-29 ,C(9288,9371)-K-29
8.	Brake Caliper	KBI	C(6341,6522,6327,6130)-29	C(6131,6328,6370,6209)-29
9.	Brake Disc	FAV	06-20 (5924,5925,5983,5984)D133561-300	06-20 (6405,6408,5926,5923)D133561-300
10.	Ball Joint Control Arm	BONY		
11.	Lateral Bump Stop	AR/GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	JJ		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	BONY		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	BONY		
18.	Anti roll bar Make	SF		
19.	Roll Link make	JUR+BONY /RF+BONY		
20.	Fork make	RF		
21.	Control Arm Upper	SF	487,122,141,23	936,16,135,58
22.	Control Arm Lower	SF	235,388,212,98	132,326,88,118
23.	Phonic Wheel	KBI	K-06-20	K-06-20

Signature of SSE/Bogie/QC



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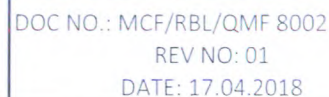
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RLY	CR	COACH NO	205629/C	DATE OF DISPATCH	23-Dec-20
Type	LWACCN	Shell No.	20C207	DISPATCH TO	SSE/C&W/WB/BB
				FUR.NO.	L3T-1606

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-KBI	5980 28/20
2	Distribution valve	M/S-KBI	2020G11881
3	Pull box	M/S-KBI	
4	FIBA	NIL	
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-PULSAR RUBBER KOLKATA	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-RESPONSIVE	
9	UIC Vestibule (PPE)	M/S-SUNCREST KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
11	Gangway bridge mounting (PPE)	M/S-HARE KRISHNA KXH	
12	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA KXH	
13	Body Side Window	M/s-AXSYS SOLUTION	
14	Emergency Window	M/s-AXSYS SOLUTION	
15	Lavatory/hopper Window	M/s-BIRCON GZB	
16	Roof Ceiling	M/S-JBMR GZB	
17	Door way /gang way ceiling	M/S-GANDHI SAFE & ALLIED	
18	Supply Air Duct	M/S-HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-FIBRO KOLKATA	
20	Partition panel	M/S-UNIVERSAL	
21	Partition pillar	M/S-NAGINA KXH	
22	AC Trough	M/S-BHARAT LKO	
23	Body Side Doors 4	M/s-JBM FARIDABAD	
	Body Side Doors 2	M/s-JVR LDH	
	Body Side Doors 1,3	M/s-SVARN INFRATEL	
24	Compartment Door (PPE)	M/s-POOJA SALES	
25	Compartment Door (NPPE)	M/s-POOJA SALES	
26	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
27	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
28	RMPU	M/S-DAULATRAM BHOPAL	
29	Bio Tank	M/S-RAIL FAB -02, UNIFAB-02 NOS	
30	Pressurized flushing (ele. Pneu.)	M/S-OASIS	
31	Auxiliary Water Tank	M/S-OASIS	
32	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST MOHALI	
33	Under Slung Water Tank (1x450 L)	M/s-AMIT ENGG BADDI	
34	Health Faucet	M/S-HFGW VADODARA	
35	Lotah Filler Tap	M/S-HFGW VADODARA	
36	Bib cock	M/S-JAQUAR ALWAR	
37	Lavatory Modules	M/S-HFGW VADODARA	
38	Lavatory Doors	M/S-HFGW VADODARA	
39	Fire Extinguisher	M/S-DEVIKA FIRE	6904/6710
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK	
41	Seat & Berth	M/S-ANANYA RCC LLJ	
42	Light Luggage Rack	M/S-LUCKY GURGAON	
43	Snack Table	M/S-INTERNATIONAL TRACTOR JUC	
44	Venturi grill	M/S-HFGW VADODARA	
45	RFID	NIL	

Signature
08/02/2021
SSE/QC/MCF/RBL
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13. MODIFICATION (IF ANY)	: NIL
14. DEVIATION (IF ANY)	: NIL
15. ITEM FITTED ON THE COACH ON TRIAL	: NIL

16. WARRANTY:

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 qualityrcfbl@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

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.

Dy.COM/MCF/RBL

Modern C++

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रे०डि०का०, रायबरेली (लालगंज)



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.						
TYPE COACH		LWACCN		SHELL/COACH NO		205629/C
RAILWAY		CR	ELECT. FIT DATE	19-12-2020	MCF FUR. NO.	3T-1606
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			28.16 Cub mtr/min		OK
3.2	Return Air			76.45 Cub mtr/min		OK
3.3	Exhaust Air			5.38 Cub mtr/min		OK
3.4	Conditioned Air			175.07 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 Not done due to Ambient temp. below 22°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.					----

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 3T COACH.		
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 BERTH READING LIGHTS	OK
10.0	WORKING OF COMPARTMENT LIGHTS	OK
11.0	WORKING OF MOBILE CHARGING SOCKETS	OK
12.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	OK
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	WORKING OF COMPOSITE PANTRY(ONLY FOR RAJDHANI COACH)	N/A
19.0	SAFETY :	---
19.1	OHP :	OK
19.1	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
19.2	LP/HP GAUGE	OK
19.3	HYGROSTAT	OK
19.4	CONTROL CIRCUIT	OK
19.5	POWER CIRCUIT	OK
20.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : DAULAT RAM Sr no of RMPU 1(NPP side) : 20F/RMPU/05/583 Sr no of RMPU 2(PP side): 20F/RMPU/05/581 Sr no of Microprocessor. : SA 20081095	As per RDSO/PE/SPES/AC/0061/REV-1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-19-11-0080	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0) MEDTS-0004,Rev.-1 for Smart SBC	01 no.
03.	Pump equipment with PLC controller & pump box Make: HIND PA Sr.no: 20/10/481 Sr no.1: 20/10/1001 Sr no.2 : 20/10/1002 Sr.no.CPA: 20/10/588-HIND	As per spec EDTS 186,Rev-a, Am-2. As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	01 Set
04.	Double inlet centrifugal blower 415V/03Ph/50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02 no.
05.	Provision of Passenger area LED Light(Cabin) Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-L	09 no.
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-M	09 no.
08.	Mounting of Cabin/Corridor Light with Night light.	As per drg no. LW 76091.	OK
09.	Provision & mounting of Doorway/Gangway light. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-N & Drg no. LW 76099	07 no.
10.	Provision & Mounting of PACIL Assly. Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-I Drg no. LW 76098.	02 no.
11.	Provision & Mounting of WC light. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-H1 Drg no. LW 76097.	02 no.
12.	Provision & Mounting of Lavatory Light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016.REV-01, TYPE-D & Drg no. LW 76092.	04 no.
13.	Provision of Emergency Lighting system Make: INTEG	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	04 no.
14.	Provision of razor socket for WC for 110/240V Make: SSK	. EDML047,ITEM-4	04 no.

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ROLLING STOCK CERTIFICATE OF LHB EOG 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
15.	PA system for LHB coaches Make: AHUJA	EDTS 173,Rev- B.Cor-1.	01 Set
16.	Provision of terminal strip complete	EDML 034,Rev-C.DRG NO.LW76054	01 Set
17.	Diffuser complete w/o item 1 & 2.	LW 76012,Alt-a	ok
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate & 2 no. ON_ OFF switches 6A,250 V AC and 1 no. 5-pin socket 6A,250V AC with 1.0 Amp glass fuse. Make : SSK	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-4 .Drg. No. LW74202	09 no.
19.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass fuse. Make : SSK	As per spec EDML-064,REV- B,Am-1 alt 'c' Item 16.Drg. No. LW74202	54 no.
20.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 no. ON-OFF switches and 1 no. 5-pin socket 6A, 250 V AC 1 no. 1.0 Amp glass. Make : SSK	As per spec EDML-064,REV- B,Am-1 alt 'c' Item-5. Drg. No. LW74202	09 no.
21.	Provision & Mounting of reading light for upper berth Make : DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01. TYPE-F2 & Drg no LW 76094	27 no.
22.	Provision & Mounting of reading light for transverse berth (RHS) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01. TYPE-F3 & Drg no. LW 76095	18 no.
23.	Provision & Mounting of reading light for berth transverse (LHS) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01. TYPE-F4 & Drg no. LW 76096	18 no.
24.	Provision & Mounting of reading light for berth Longitudinal. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01. TYPE-F1 & Drg no LW 76096	09 no.
25.	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(R ev.-0)-2013 with annexure-A, B.	01 set
26.	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

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Sr. no.	Description	Drg/Spec no.	Quantity per Coach
27.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	ok
28.	Provision of cable binder.	As per Drg. No. cc76129, Item 2,4.	ok
29.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005, Alt C	01 no.
30.	Battery fuse box +ve Make: INDORAIL	LW 71001, Alt-H	01 no.
31.	Battery fuse box -ve Make: RICHMOND	LW 71002, Alt-I	01 no.
32.	Provision of Regulated Battery Charger Make: HITACHI Sr. no.: 18111695	As per spec no. RDSO/PE/SPEC/AC/0183-(REV.-0), Or RDSO/PE/SPEC/AC/0183-2015(REV.-1)-For Under slung RBC cum EBC.	01 no.
33.	Emergency battery charger Make: BHASIN Sr.no.: 01207122	EDTS163, REV-C, COR-2&3	01 no
34.	Provision of 5 KVA TFR Make: VIMAL Sr no : VTC-3089-LHB-1204	As Per EDTS-366, REV-NIL & CC-71510	01 no.
35.	Provision of capacitor Bank Make: NEC SL.no.: 2020076186	As per EDML-130 Rev-1, Corr-1	01 no.
36.	60KVA transformer Make: VIMAL Sr no : VTC-R-3089-LHB-4547	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
37.	Feeder junction boxes. Make: INDORAIL	EDTS-328 REV-C	01 set
38.	Wheel set earthing equipment. Make: PRIME ELECT.	EDTS101, REV-C, AM-1	01 set
39.	Wheel Slide Protection System (WSP) Make: KNORR Sr. no : 0119412971	As per MDTs 077, Rev.-2 M/s "FAIVELEY" or "Knorr Bremse", or "ESCORTS" or "JWL-DAKO-CZ"	01 set
40.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: MV	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	02
41.	PANTRY EQUIPMENTS (ONLY FOR RAJDHANI COACH). Hot Case, Bottle cooler cum deep freezer Make: N/A	As per spec no EDTS 139, Rev-E, Sec II.	N/A

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

