



**Modern Coach Factory Raebareilly**  
**आधुनिक रेल डिब्बा कारखाना, रायबरेली**

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

**ROLLING STOCK CERTIFICATE**

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1301

RLY	NWR	COACH NO	197867/C	DATE OF DISPATCH	21/12/2019
Type	LWACCN	Shell No.	93404	DISPATCH TO	Sr.DME/C&W/AH
				FUR.NO.	L3T-1368

1. Railway Board's Order No. : 2019/MC/142/2, DATE-21-11-2019
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

**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 1105/1105

**6. TRACEABILITY OF SHELL ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/S-TACPL	68/87
	Front Part	NPP END M/S-TACPL	68/87
	Complete	M/S-TACPL	68/87
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/CONT V4U	89/01
		RH SIDE MCF/RBL/CONT V4U	89/02
4	End wall	PP END MCF/RBL	
		NPP END MCF/RBL	
5	Roof	M/S-HANSPAL	3
6	Centre Buffer Coupler	M/S-SANROK ENT	PP/NPP 14768/14775

**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 <sup>2</sup> .	6 - 10 sec.	08 sec.
		Max. pressure in BC	3.0 ±0.15 kg/cm <sup>2</sup> .	3.0 kg/cm <sup>2</sup>
		All Brake are applied	OK	OK
2	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	90/88	25/11/2018
2	Insulation			Satisfactory		

*Signature*  
**SSE/QC/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

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RLY	N	W	R	Coach No.	1	9	7	8	6	7	/	C	-	DATE OF DISPATCH	2	1	1	2	2	0	1	9
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DISPATCH	Sr.DME/C&W/AII	Type	L	W	A	C	C	N	Shell No.	9	3	4	0	4	FUR .NO	L3T-1368
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## 9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	192396				192395			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-202				ECBT-201			
Bolster no.	SCI-400				SCI-396			
Axle No	19 S - 5122 RWF		19 L - 5606 RWF		19 P - 2844 RWF		19 L - 5880 RWF	
Wheel Dia	917.445	917.586	917.433	917.417	917.484	917.462	917.446	917.394
Wheel Disc No	TZ-08-19 71758-9SJ9	TZ-08-19 72908-9SJ6	TZ-08-19 75963-9RP2	TZ-07-19 71456-9QJ4	TZ-08-19 75958-9SK8	TZ-07-19 63498-9RQ3	TZ-08-19 74754-9SK5	TZ-08-19 71757-9SJ9
R.B. Nos.	08-19 27898	08-19 28081	08-19 71634	09-19 37280	09-19 38052	09-19 37961	09-19 37667	09-19 37078
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.	AVADH RAIL Sr.NO.05-19 1714	AVADH RAIL Sr.NO. 05-19 1694	AVADH RAIL Sr.NO. 05-19 1766	AVADH RAIL Sr. NO05-19 1778

## 11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	16405,16400	17254,16395
2.	Primary outer Spring	CMFSK	10-19 1100-78 (311,328,245,266)	10-19 1100-78 (60,258,151,44)
3.	Primary Inner Spring	CMFSK	10-19,1101,-101(44,196,27,493)	10-19,1101,-101(147,12,15,76)
4.	Primary Damper	KONI	03-19 (01899,05721,04731,02877)	03-19 (02153,01703,01881,05910)
5.	Secondary Damper	KONI	04-19 (03901,03763)	03-19 (19475,19339)
6.	Lateral Damper	KONI	04-19 01978	04-19 00696
7.	Brake Cylinder	ESCORT	11-18(19339,49095,49098,49340)	11-18(49320,48984,18986,43922,)
8.	Brake Caliper	ESCORT	11-18(28492,28435,28438,28198)	11-18(28518,28332,28334,28517)
9.	Brake Disc	KBI	24203790 0079-42/19,24201090 0006-42/19 24200051 0067-42/19,24203744 0067-42/19	24203752 0032-42/19,24203750 0021-42/19 24203752 0037-42/19,24203750 0020-42/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1906,1906	1906,1906
17.	Check Valve	ESCORT	1906	1906
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	210819-2,210819-2,280819-2,210819-2	210819-2, 210819-2, 210819-2,290819-2
22.	Control Arm Lower	RVE	230819-3,230819-5,230819-2,230819-2	280819-2, 290819-2, 280819-2,RVE
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC

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				FUR.NO.	L3T-1368

**12. TRACEABILITY OF FURNISHING ITEMS:**

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-ESCORT	2019040112
2	Distribution valve	M/S-ESCORT	1904A112
3	Pull box	M/S-FAV	
4	FIBA	M/S-KBI FRIDABAD	9334/29,9188/29
5	Foot Step	M/s-HITECH INCREAVENTURE PVT LTD RBL	
6	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8	PVC	M/S PREMIER POLYFILM, GZB	
9	UIC Vestibule (PPE)	M/S- KIRAN RUBBER PRODUCT PUNE	
10	UIC Vestibule (NPPE)	M/S- KIRAN RUBBER PRODUCT PUNE	
11	Gangway bridge mounting (PPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
12	Gangway bridge mounting (NPPE)	M/S-HARE KRISHNA COACH PRODUCT KXH	
13	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16	Roof Ceiling	M/S-MOBILITY SOLUTION LTD MOHALI	
17	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JUC	
18	Supply Air Duct	M/S- HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-ALEX OVERSEAS PVT LTD KXH	
20	Partition panel (HONEY COMB)	M/S- RAIL TECH PVT.LTD. KXH	
21	Partition pillar	M/S-NAGINA&SIDHU INTERNATIONAL KXH	
22	AC Trough	M/S-MEENA FIBRE GLASS PUDUCHERY	
23	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
24	Compartment Door (PPE)	M/S-HANSPAL TRADERS KXH	
25	Compartment Door (NPPE)	M/S-HANSPAL TRADERS KXH	
26	Vestibule Door(PPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LDH	
27	Vestibule Door(NPPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LDH	
28	RMPU	M/S-S.S.K ENT KXH	
29	Bio Tank	M/S- JSL LIFE STYLE LTD. GURGAON	
30	Pressurised Flushing (Elect pneu)	NA	
31	Auxiliary Water Tank	M/S-AMIT ENG,MOHALI	
32	Under Slung Water Tank ( 2X685L)	M/S-AMIT ENG,BADDI	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG,BADDI	
34	Health Faucet	M/S-ARHAM HI-TECH DEG.SOLUTION MUMBAI	
35	Lotah Filler Tap	M/S-ARHAM HI-TECH DEG.SOLUTION MUMBAI	
36	Bib cock	M/s- KPR INDUSTRIES, MOHALI	
37	Lavatory Modules	M/S-ARHAM HI-TECH DEG.SOLUTION MUMBAI	
38	Lavatory Doors	M/S-ARHAM HI-TECH DEG.SOLUTION MUMBAI	
39	Fire Extinguisher	M/S-SAFE PRO FIRE	3385,3379
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
41	Seat & Berth	M/S-ORIENTAL VENEER PRODUCTS, MUMBAI	
42	Light Luggage Rack	M/S-RAIL FAB KXH	
43	Snack Table	M/S-DLJM NOIDA	
44	RFID	NA	

SSE/QC/MCF/RBL

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Type	LWACCN	Shell No.	93404	DISPATCH TO	Sr.DME/C&W/AII	FUR.NO. L3T-1368

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:**

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.

<b>SSE/QC/MCF/RBL</b>	<b>SME/AME/QC/MCF/RBL</b>	<b>Dy. COM/MCF/RBL</b>

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES  
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG/HOG AC COACHES

TYPE COACH	LWACCN	SHELL/COACH NO	197867/C
RAILWAY	NWR	ELECT.FIT DATE	19-12-2019
FUR.NO	3T-1368		
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	19.64 Cub mtr/min	OK
3.2	Return Air	70.10 Cub mtr/min	OK
3.3	Exhaust Air	6.38 Cub mtr/min	OK
3.4	Conditioned Air	161.40 Cub mtr/min	OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition  <b>Not done due to Ambient temp. below 22°C</b>	----	
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  Not done.	----	

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES  
ELECTRICAL TEST CERTIFICATE FOR LHB EOG HOG AC COACHES

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 COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : <b>SSK</b> Sr no of RMPU (NPP side): <b>1224/19</b> Sr no of RMPU (PP side) : <b>1221/19</b> Sr no of Microprocessor: <b>AE 19.09.825</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>AMIT ENGG.</b> Sr no : <b>AE/SB-597</b>	RDSO/PE/SPEC/AC/0184-2015 REV-0	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA : <b>2019/08/008</b> Sr no.1 : <b>3409</b> Sr no.2 : <b>3429</b> Sr no.CPA : <b>2019/08/007-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>ECOFIT</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Door way/Gangway Light Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091 -2016,REV-01, TYPE-N	<b>07</b>
06.	Provision of Passenger area light(Cabin) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091 -2016,REV-01, TYPE-L	<b>09</b>
07.	Corridor Light with Night light Make: <b>RT VISION</b>	RDSO/PE/SPEC/TL/0091 -2016,REV-01, TYPE-M	<b>09</b>
08.	Emergency light system for EOG type coaches (AEL) Make : <b>INTEG ELECT.</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>RT VISION</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091 -2016,REV-01, TYPE-H1	<b>04</b>
11.	Passenger alarm coach indication light Make : <b>KAVERI</b>	LW 76005,Alt-e	<b>02</b>

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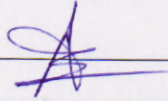
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : <b>SSK</b>	EDML 047,Rev nil	<b>04</b>
13.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01 SET</b>
14.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>1 SET</b>
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	<b>18</b>
16.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>RECORD</b>	EDML 0,64,Rev-B, Item -16.	<b>54</b>
17.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am-1,2&3	<b>01 set</b>
18.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : <b>AMARA RAJA</b> Lug date : <b>07/19</b>	EDTS 129,Rev nil	<b>01 set</b>
19.	Battery box for LHB coaches. Make : <b>HITECH</b>	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>
20.	Battery fuse box +ve Make : <b>ISGPL</b>	As per LW 71001,Alt-F	<b>01</b>
21.	Battery fuse box -ve Make : <b>SSK</b>	As per LW 71002,Alt-F	<b>01</b>
22.	Reading light for longitudinal berth ( LHS) Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	<b>9</b>

  
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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: <b>RT VISION</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	<b>27</b>
24.	Reading light for transverse berth (RHS) Make: <b>DEVINTEC ELECTRICAL</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	<b>18</b>
25.	Reading light for berth transverse ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	<b>18</b>
26.	Regulated battery charger(RBC CUM EBC) Make : <b>PI ENGG.WORKS</b> Sr no: <b>PI-19110193</b>	RDSO/PE/SPEC/AC/0183 (REV '1' )	<b>01</b>
27.	Provision of 5KVA TFR Make : <b>VIMAL</b> SL.no : <b>VTC 3089 LHB-1194</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
28.	Provision of capacitor Bank Make : <b>NEC</b> SL.no : <b>2019100636</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
29.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R-3089-LHB-2595</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
30.	Inter Vehicle (ZS)coupler Make: <b>PRIME ELECT.</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
31.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>01 set</b>
32.	Wheel set earthing equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
33.	Wheel Slide Protection System (WSP) Make : <b>ESCORT</b> Sr no : <b>180055-59399-0024</b>	M/s : <b>ESCORT</b>	<b>01 set</b>
34.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>NIL</b>	As per EDTS -139, Rev- E ,Sec II.	<b>00</b>

**SSE/EL/QC**

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आपरेटिंगका/लालगंज/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,

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