



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/2019-20/1258

RLY	NWR	COACH NO	197787/C				DATE OF DISPATCH	17-12-2019
Type	LWACCN	Shell No.	93318	DISPATCH TO	Sr.DME/C&W/AII		FUR.NO.	L3T-1361

1. Railway Board's Order No. : 2019/M©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 1099/1105

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END	M/S-ECBT
	Part	NPP END	M/S-ECBT
	Complete	M/S-ECBT	284
2	Lav. side wall	M/S-R.TECH KXH	LAV.1
		M/S-R.TECH KXH	LAV.2
3	Side wall	LH SIDE	MCF/RBL
		RH SIDE	MCF/RBL
4	End wall	PP END	M/S-RAILTECH KXH
		NPP END	M/S-RAILTECH KXH
5	Roof	M/S-PIL	88
6	Centre Buffer Coupler	M/S-SANROK LTD.	PP END 14593 NPP END 14595

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	K.NEROLAC	M/S-K.NEROLAC	90/89	18-11-19
2	Insulation					

Satisfactory

SSE/QC/MCF/RBL

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रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DATE: 16.05.2016

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RLY	N	W	R	Coach No.	1	9	7	7	8	7	/	C	-	DATE OF DISPATCH	1	7	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

3

1

8

FUR NO

L3T-1361

9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	192202				192201			
Bogie Type	FIAT				192201			
Frame no.	RBL-2032				FIAT			
Bolster no.	RBL-2781				RBL-2002			
Axle No	19 P - 6962 RWF				RBL-2963			
Wheel Dia	917.568	917.468	917.573	917.518	917.586	917.523	917.559	917.48
Wheel Disc No	TZ-07-19 62415-9RP0	TZ-07-19 63384-9RM9	TZ-07-19 73474-9SK5	TZ-07-19 74647-9SJ7	TZ-08-19 74237-9SK1	TZ-08-19 73600-9SK4	TZ-08-19 74645-9SJ7	TZ-08-19 74142-9SL2
R.B. Nos.	08-19-27870	08-19-23344	08-19-28051	08-19-28271	09-19-37073	08-19-25310	08-19-27881	09-19-37810
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.	CMFSK10-19- 8836-091-164	CMAFS10-19- 9513-108	CMFSK10-19- 8836-091-248	CMAFS10-19- 9513-105	CMFSK10-19- 8836-091-250	CMAFJ10-19-1913- 107	CMFSK10-19- 8836-091-19	CMAFJ10-19-9513- 106
Compressed Ht. at Tested Load	513.5	468	513.5	467	513	468	515	468
Alignment deviation (mm)	10	10	9	10	13	10	13	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	17196,18107	18098,18090
2.	Primary outer Spring	CMFSK	05-19-1035-002 (441,443,244,446)	0519-7411-551 (527,327,447,362)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(561,995,274,537)	05-19 7143-559(374,735,532,418)
4.	Primary Damper	KONI	03-19 (05239,03504,04949,05601)	03-19 (05588,04032,05590,03503)
5.	Secondary Damper	KONI	04-19 (04313,04294)	04-19 (05626,05661)
6.	Lateral Damper	IAI	09-19 251463	05-19 251557
7.	Brake Cylinder	KBI	B(9775,8786,7845,8859)K-29	B(8854,7844,7887,8853)K-29
8.	Brake Caliper	KBI	B(6626,6751,5818,5890)K-29	B(5851,5817,5875,5893)K-29
9.	Brake Disc	KBI	24200026 0036-35/19,24198280 0052-35/19 24198276 0062-35/19,24198276 0061-35/19	24200026 0038-35/19,24200026 0041-35/19 24200055 0012-37/19,24200055 0018-37/19
10.	Ball Joint Control Arm	ARYAN		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	AR		
16.	SEC. Rubber pad	PRAG		
17.	Rubber spring Make	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/ARYAN		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	210819-3,100819-3,190819-3,180819-3	210819-3,180819-2,200119-1,200819-3
22.	Control Arm Lower	RVE	160819-1,170819-2,300819-2,160819-2	160819-2,160819-2,210819-3,170819-2
23.	Phonic Wheel	KBI	K 08-19	K 08-19

Signature of SSE/Bogie/QC

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रेडि०का०, रायबरेली (लाहमंज)



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RLY	NWR	COACH NO	197787/C	DISPATCH TO	Sr.DME/C&W/All	DATE OF DISPATCH	17-12-2019
Type	LWACCN	Shell No.	93318			FUR.NO.	L3T-1361

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELY	L19108B
2	Distribution valve	M/S-FAIVELY	19105631B
3	Pull box	M/S-FAIVELY	
4	FIBA	NA	
5	Foot Step	M/s-HITECH INCREAVENTURE PVT LTD RBL	
6	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7	Floor board	M/s- NARMADA FOREST SERVICE LTD. BHOPAL	
8	PVC	M/S PREMIER POLYFILM, GZB	
9	UIC Vestibule (PPE)	M/S-SUNCREST INDS.KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREST INDS.KOLKATA	
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- SHATABDI SAFTY GLASS VADODARA	
14	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16	Roof Ceiling	M/S-ALEX OVERSEAS PVT LTD KXH	
17	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
18	Supply Air Duct	M/S-HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-ALEX OVERSEAS PVT LTD KXH	
20	Partition panel	M/S-HONEY COMB INTERNATIONAL BANGLORE	
21	Partition pillar	M/S- SIDHU INTERNATIONAL KXH	
22	AC Trough	M/S-MOBILITY SOLUTION LTD, MOHALI	
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- JBM INDUSTRIES, FARIDABAD	
27	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28	RMPU	M/S-SSK ENG KXH	
29	Bio Tank	M/S-JSL LIFESTYLE LTD GURGAON	
30	Auxiliary Water Tank	M/S-AMIT ENG,MOHALI	
31	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST. MOHALI	
32	Under Slung Water Tank (1x450 L)	M/S-AMIT ENG,BADDI	
33	Health Faucet	M/S-BAHREEN FIBRE GLASS CHITTOR	
34	Lotah Filler Tap	M/S-JAQUAR PVT,LTD ALWAR	
35	Bib cock	M/S-JAQUAR PVT,LTD ALWAR	
36	Lavatory Modules	M/S-BAHREEN FIBRE GLASS CHITTOR	
37	Lavatory Doors	M/S-BAHREEN FIBRE GLASS CHITTOR	
38	Fire Extinguisher	M/S-DEVIKA FIRE SAFETY	1177, 871
39	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
40	Seat & Berth	M/S-TWPL MUMBAI	
41	Light Luggage Rack	M/S-RAIL FAB KXH	
42	Snack Table	M/S-DLJM NOIDE	
43	RFID	NA	

SSE/QC/MCF/RBL

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रेडिओका, रायबरेली (लालमंज)



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Type	LWACCN	Shell No.	93318			FUR.NO.	L3T-1361

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.

SSE/QC/MCF/RBL	SME/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL
वरिष्ठ जूनियर अभियंता गुणवत्ता विभाग रेल डिब्बा कारखाना, रायबरेली (लालगंज)	वरिष्ठ यांत्रिक अभियंता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	उप मुख्या गुणवत्ता नियंत्रक/शेड Dy. Chief Quality Engineer/Shell आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

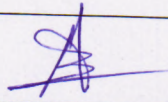
DATE: 18.01.2017

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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	197787/C
RAILWAY	NWR	ELECT.FIT DATE	16-12-2019
FUR.NO	3T-1361		
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	19.72 Cub mtr/min	OK
3.2	Return Air	72.93 Cub mtr/min	OK
3.3	Exhaust Air	7.04 Cub mtr/min	OK
3.4	Conditioned Air	172.58 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	----	
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/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	OK

R 407C

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : SSK Sr no of RMPU (NPP side): 1031/19 Sr no of RMPU (PP side) : 1030/19 Sr no of Microprocessor: AE 19.10.909	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-611	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/11/007 Sr no.1 : 19100187 Sr no.2 : 19100163 Sr no.CPA : NIL-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : ECOFIT	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : INTEG ELECT	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K.LITE	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : KAVERI	LW 76005,Alt-e	02

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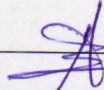
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

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


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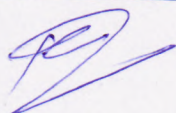
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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DEVINTEC ELECTRICAL	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Regulated battery charger(RBC CUM EBC) Make : PI ENGG. WORKS Sr no: PI-19110206	RDSO/PE/SPEC/AC/0183 (REV '1')	01
27.	Provision of 5KVA TFR Make : BHASIN SL.no : 09189921	As Per EDTS-366,REV-NIL & CC-71510	01
28.	Provision of capacitor Bank Make : NEC SWITCHGEARS & CONTROL SL.no : 2019100684	As per EDML-130 Rev-1,Corr-1	01
29.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2233	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
30.	Inter Vehicle (ZS)coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
31.	Feeder junction boxes. Make : MV ELECTRO	EDTS-328 REV-C	01 set
32.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
33.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : I 0670	M/s : FAIVELEY	01 set
34.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00
			
SSE/EL/OC		AWM(ELECT.)/MCF/RBL	
वरिष्ठ अनुभाग अभियन्ता		वरिष्ठ विद्युत अभियन्ता	
गुणवत्ता नियंत्रण		रेल कोच फैक्टरी, रायबरेली,	
आपरेटिंग/कागज/लालगंज/रायबरेली		Sr. Electrical Engineer / RCF / RBL	
S.S.E./Elect-QC/M.C.F./LLJ/RBL			