

Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/657

RLY	C	R	-	-	Coach No.	1	9	6	2	4	2	/	C	DATE OF DISPATCH	2	9	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	4	FUR.NO.	L3T-1242
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|----|---------------------------|---|--|------------------|------------------|
| 1. | Railway Board's Order No. | : | 2019/M(C)/142/2, dated -03 -06-2019 | | |
| 2. | Tare Weight of Coach | : | 45.6 Tonnes | | |
| 3. | Carrying Capacity | : | (a) Seating: 72 | (b) Sleeping: 72 | (c) Luggage: NIL |

4. **Special feature:** - Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

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	1) 1105(NPPE) 2) 1096 (PPE)

6. TRACEABILITY OF SHELL ITEMS:


6. TRACKABILITY OF CHILL ITEMS.								
S NO	ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Under frame	Front Part	PP END	M/S-SFPL	31			
			NPP END	M/S-SFPL	31			
		Complete	M/S-SFPL			31		
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	M/S-ECBT		28			
		RH SIDE	M/S-ECBT		28			
4.	End wall	PP END	M/S-OMEX REWARI		---			
		NPP END	M/S-OMEX REWARI		---			
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai			140			
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD			PP END	9999	NPP END	1012

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ Max. pressure in BC ➤ All Brake are applied 	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	07 sec. 3.0 kg/cm ² OK
2.	Insensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.3 kg/cm²/min. 	No brake application	OK
3.	Sensitivity	<ul style="list-style-type: none"> ➤ Exhaust BP @ 0.1 kg/cm²/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	M/S- AXALTA	EMPRISE	99/99	29.08.19
2.	Insulation	Satisfactory				


वरिष्ठ/उप/महोदय/प्रमुख
गुणवत्ता विभाग
मै ०१८०का०, रायवरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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DISPATCH	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	4	FUR .NO	L3T-1242
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	180439				180440			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1138				SCI-2162			
Bolster no.	AMIT-309				AMIT-325			
Axle No	18 G - 1333 RWF		18 G - 4359 RWF		18 F - 9619 RWF		18 G - 0891 RWF	
Wheel Dia	917.549	917.69	917.562	917.71	917.498	917.617	917.471	917.594
Wheel Disc No	TZ 05-18 37332-8RL6	TZ 05-18 18871-8PQ6	TZ 05-18 23168-8QG6	TZ 05-18 22748-8PN8	TZ 07-17 27560-7RH9	TZ 07-18 42099-8RP5	TZ 04-18 15984-8MT2	TZ 07-17 27110-7RK4
R.B. Nos.	07-18 41557	07-18 41207	07-18 13284	07-18 41174	05-18 13538	07-18 41349	05-18 40390	07-18 41018
CT R B Make	SKF		SKF		SKF		SKF	

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.	CMFSK10-18- 8835-469-291	CMFSK11-18- 9513-475-257	CMFSK10-18- 8836-469-93-293	CMFSK11-18- 9513-475-280	CMFSK10-18- 8836-464-115	CMFSK10-18-9513- 475-207	CMFSK10-18- 8885-469-118	CMFSK10-18-9513- 475-77
Compressed Ht. at Tested Load	512.5	466	512	465	514	468	514	467
Alignment deviation (mm)	9	8	10	11	13	10	11	8

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	13330,12368	13865,12362
2.	Primary outer Spring	CMRSK	07-18 03Y(4901,1488,2862,4963)	07-18 03Y(1112,1426,576,1555)
3.	Primary Inner Spring	CMRSK	05-18 04Y(5660,5201,5298,6890)	05-18 04Y(5452,5433,6776,5442)
4.	Primary Damper	KNORR	06-18 (24668,24611,24608,24667)	06-18 (24622,24660,24619,24661)
5.	Secondary Damper	KNORR	05-18 (4903,4894)	05-18 (4906,4900)
6.	Lateral Damper	KNORR	06-18 4061	06-18 4060
7.	Brake Cylinder	ESCORT	05-18 (44759,45203,45202,44758)	05-18 (44756,45401,45400,44757)
8.	Brake Caliper	ESCORT	05-18 (24818,25142,25141,24817)	05-18 (24815,25340,25339,24816)
9.	Brake Disc	FAV	11-18 (6062,6061,6063,6064)D-133561-300	11-18 (6067,6068)12-18(6860,6853)D-133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	BONY		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON/ASL		
21.	Control Arm Upper	RVE	NIPHA-0718,130918-2,280918-4,140918-3	109,130918-2,0618,130918-1
22.	Control Arm Lower	RVE	129918-4,090317-3,070317-3,RVE	071018-4,071018-4,100517-2,071018-4
23.	Phonic Wheel	ESCORT	ESCORT	ESCORT

Signature of SSE/Bogie/QC





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ROLLING STOCK CERTIFICATE

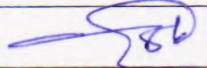
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	4	FUR.NO.	L3T-1242
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3267 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019G 8329
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	D-coupling arrangement	M/S-KOHINOOR KRMUMBAI	
6.	Floor board	M/s-TWPL MUMBAI	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREAST KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- MAHAVEER METAL WORKS KXH	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER METAL WORKS KXH	
12.	Body Side Window	M/S- RELIABLE SAFETY NOIDA	
13.	Emergency Window	M/S- RELIABLE SAFETY NOIDA	
14.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
16.	Door way /gang way ceiling	M/s Amirchand engg.works Jalandhar	
17.	Supply Air Duct	M/S- GANDHI SAFE & ALLIED JUC	
18.	Partition panel	M/S- UNIVERSAL NOIDA	
19.	Partition pillar	M/S-NAGINA ENG.KXH	
20.	Side Wall panel	M/s Hindustan fibre ltd vadodara	
21.	AC Trough	M/s-BHARTI FIBRE LKO(NPP),MSL(PP)	
22.	Body Side Door	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Compartment Door (PPE)	M/s KALSI LDH	
24.	Compartment Door (NPPE)	M/s KALSI LDH	
25.	Vestibule Door(PPE)	M/s KALSI AUTOMATIC DOOR LDH	
26.	Vestibule Door(NPPE)	M/s KALSI AUTOMATIC DOOR LDH	
27.	Bio Tank	M/s- OMEX AUTO GURUGRAM	
28.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
29.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. BADDI	
30.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
31.	Health Faucet	M/s Hindustan fibre ltd vadodara	
32.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
33.	Bib cock	M/S-JAQUAL ALWAR	
34.	Lavatory Modules	M/s Hindustan fibre ltd vadodara	
35.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
36.	Fire Extinguisher	M/S- SAFTEY PRO	PPE-2857 ,NPPE-2171
37.	Seat & Berth	M/s- OVPL. MUMBAI	
38.	Light Luggage Rack	M/S- LUCKY ENTT. GURGAON	
39.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	


SSE/QC/MCF/RBL

मुख्यवक्ता विभाग
नं० डि० का०, रायबरेली (लालगंज)



MCF/RBL



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DISPATCH TO	SSE/STOCK/CTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	6	4	FUR.NO.	L3T-1242
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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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 30 months from the date of supply of material whichever is earlier.

NOTE:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- 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.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of 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/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
गुणवत्ता विभाग
रेलवे भवन, रायबरेली (लाहौर)

वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता
Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

उप मुख्य गुणवत्ता प्रबन्धक/रेल
Dy. Chief Quality Manager/Shell
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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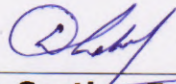
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	196242/C
RAILWAY		CR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/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	70.96 Cub mtr/min		OK
3.3	Exhaust Air	7.26 Cub mtr/min		OK
3.4	Conditioned Air	160.13 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.			----
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
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG 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 AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : AMIT ENGG. Sr no of RMPU (NPP side): 3776 G Sr no of RMPU (PP side) : 3780 G Sr no of Microprocessor: AE 19.08.629	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : INTEG Sr no : 201907070	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/06/0143 Sr no.1 : 19060678 Sr no.2 : 19060642 Sr no.CPA : 2019/07/071-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 : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : DR AUTO	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: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : RT VISION	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

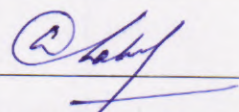
Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

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ROLLING STOCK CERTIFICATE OF LHB/EOG 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
14.	Terminal connector Make : WAGO	EDML 037,Rev`a'	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	01 set
19.	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 : 01/18	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : AECO	As per LW 71001,Alt-F	01
22.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt-F	01



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REV NO: 00

DATE:18.01.2017

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : BHASIN Sr no: 07194022	EDTS 163,Rev 'c' corg.-2&3	01
24.	Regulated battery charger Make : EEC Sr no: 01190025	RDSO/PE/SPEC/AC/0183 (REV -0)	01
25.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT5L 18403	As Per EDTS-366,REV-NIL & CC-71510	01
26.	Provision of capacitor Bank Make : KONTACT SL.no : KT-972	As per EDML-130 Rev-1,Corr-1	01
27.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1337	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
28.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
29.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
30.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
31.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119101402	M/s : KNORR	01 set
32.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	00

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

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

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