



# 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/2018-19/642

RLY	N	W	R	Coach No.	1	8	1	7	3	6	/	C	DATE OF DISPATCH	1	3	-	1	0	-	1	8
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DISPATCH TO	SSE(C&W)/BKN	Type	L	W	A	C	C	N	Shell No.	8	3	2	0	7	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 dated -14-09-2018

2. Tare Weight of Coach : 45.6 Tonnes

3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

### 4. 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) 1100 (NPPE) 2) 1105 (PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame Front Part	PP END M/s-EC	07/2018
		NPP END M/s-EC	07/2018
	Complete	MCF/RBL	83207
2.	Lav. side wall	M/s-CONTRACTOR V4U	LAV.1 559 LAV.2 560
		M/s-CONTRACTOR V4U	LAV.3 561 LAV.4 562
3.	Side wall	M/s-CONTRACTOR V4U	195/01
		M/s-CONTRACTOR V4U	195/02
4.	End wall	PP END M/s- OMAX, GURUGAON	---
		NPP END M/s- OMAX, GURUGAON	2018
5.	Roof	M/s -JSL	09
6.	Centre Buffer Coupler	M/s-SANROK, FARIDABAD	PP END 7195 NPP END 7158

### 6. AIRBRAKE 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> . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	06 sec. 3.0 kg/cm <sup>2</sup> 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

### 7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S -GS	SUPPLY & APPLY	89/87
2.	Insulation			Satisfactory	

*Rama*  
SSE/QC/MCF/RBL

वरिष्ठ अधिकारी  
गुणवत्ता विभाग  
रेडिओका, रायबरेली (लाला)





MODERN COACH FACTORY, RAEBARELI

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RLY	N	W	R		Type	L	W	A	C	C	N	Shell No.	8	3	2	0	7	-	-	-	-	-	-	-

**8. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	181461				181462			
Bogie Type	LWACCN				LWACCN			
Frame no.	MCF/RBL-1059				VS/RBL-1235			
Bolster no.	APEX-284				VS-339			
Axle No	18F- 9441 RWF		18 F - 8851 RWF		18F -9034 RWF		18 F-8163 RWF	
Wheel Dia	917.501	917.571	917.463	917.543	917.472	917.598	917.462	917.587
Wheel Disc No	TZ-06-18 28838-8QM6	TZ-06-18 28837-8QM0	TZ-07-18 32745-8RG5	TZ06-18 28839-8QM0	TZ06-18 30730-8QN0	TZ06-18 30731-8QN0	TZ07-18 33973-8RH1	TZ06-18 34201-8QN3
R.B. Nos.	04-18 26350	04-18 25510	05-18 36669	05-18 25522	02-18 17143	05-18 37294	02-18 17115	04-18 26106
CT R B Make	SKF		SKF		SKF		SKF	

**9. 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.	CMFSK09-18- 8836-456-50	MFSK07-18- 9513-443-63	CMFSK09-18- 8836-456-25	CMFSK07-18- 9513-443-190	CMFSK07-18- 8836-456-384-11	CMFSK07-18- 9513-443-199	CMFSK09-18-8836- 456-39	CMFSK09-18-9513- 443-216
Compressed Ht. at Tested Load	510.5	468	510.5	465.5	515	466.5	515	464.5
Alignment deviation (mm)	8	11	8	11	9	12	7	12

**10. TRACEABILITY OF BOGIE ITEMS :**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	355,249	340,500
2.	Primary outer Spring	RSK	08-18 03Y-1234, 07-18 03Y(725,1311), 08-18 03Y 815	08-18 -03Y(2148,1235,408,1272)
3.	Primary Inner Spring	CMGBD	07-18-143-82 (42,203,51,121)	07-18-143-82 (147,98,247,16)
4.	Primary Damper	KNOOR	06-18 23824,05-18(20166,20215,20168)	06-18 23875,05-18 20196,06-18 23833,05-18 20189
5.	Secondary Damper	KNORR	07-18(5700,5699)	05-18 4335,07-18 5697
6.	Lateral Damper	KNORR	06-18 4221	06-18 4216
7.	Brake Cylinder	FAV	H 18-(070,521,290,360)	H18-(240,517,468,237)
8.	Brake Caliper	FAV	K18(384,382,117,119)B	K18(388,386,385,387)B
9.	Brake Disc	FAV	08-18 (1367,1368),09-18(1744,1743)-D133561-300	08-18(1530,1590,1349,1351)- D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	WINLANE		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/PRAG, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	170818-1,140818-2,140818-2,RVE	170818-1,200818-1,200818-3,170818-1
22.	Control Arm Lower	RVE	170818-1,140818-1,RVE,170818-1	140818-1,RVE,140818-1,140818-1

Signature of SSE/Bogie/QC





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### 11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	D 18015 B
2.	Pull box	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	
3.	Distribution valve	M/S- FAIVELY TRANS. TECH.INDIA LTD. BADDI(HP)	18045510 B
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR INDUSTRIES, FARIDABAD	
6.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
7.	PVC	M/s- RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- RAKESH IRON STORE, KXH	
11.	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STORE, KXH	
12.	Body Side Window	M/S- RAIL TECH, KHX	
13.	Emergency Window	M/S- RAIL TECH, KHX	
14.	Lavatory/hopper Window	M/S- AIKON IND.SALON H.P	
15.	Roof Ceiling	M/S- HINDUSTAN FIBRE LTD. VADODARA	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
18.	Partition panel	M/S- MILTON INDUSTRIES LTD, AHAMADABAD	
19.	Partition pillar	M/S- JR INDS. JALANDHAR	
20.	Side Wall panel	M/S HINDUSTAN FIBRE LTD. VADODARA	
21.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
22.	Body Side Door 1,2,4	M/S- JVR INDUSTRIES ,LDH	
23.	Body Side Door 3	M/S- JBM, FARIDABAD	
24.	Compartment Door (PPE)	M/S- HANSPAL COACH PRODUCTS, KXH	
25.	Compartment Door (NPPE)	M/S- HANSPAL COACH PRODUCTS, KXH	
26.	Vestibule Door(PPE)	M/S- HANSPAL COACH PRODUCTS, KXH	
27.	Vestibule Door(NPPE)	M/S- HANSPAL COACH PRODUCTS, KXH	
28.	Bio Tank LAV-2,4	M/s- FLASH FORGE (P) LTD. VIZAG	
29.	Bio Tank LAV-1,3	M/S- MOHAN RAIL COMPONENT	
30.	Auxiliary Water Tank	M/s- AMIT ENGG, MOHALI	
31.	Under Slung Water Tank ( 2X685L)	M/S- SHIVALIC FASTNERS PVT.LTD. MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENGG, MOHALI	
33.	Flexible Faucet	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
34.	Lotah Filler Tap	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
35.	Bib cock	M/s- KPR INDUSTRIES LTD. MOHALI	
36.	Lavatory Modules	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
37.	Lavatory Doors	M/s-ARHAM HI-TECH DEG. SOLUTION PVT.LTD. MUMBAI	
38.	Fire Extinguisher	M/s- SAFE TECH FIRE SERVICE LTD.	PP-84,NPP-89
39.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
40.	Light Luggage Rack	M/S- TECHNO IND. ALD	
41.	Snack Table	M/s-MACHINO PLASTIC LTD. GURUGOAN	

*Signature*

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DISPATCH TO	SSE(C&W)/BKN			Type	L	W	A	C	C	N	Shell No.	8	3	2	0	7	-	2	0	1	8	-	1	9

12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

## 15. 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 वरि०अनु० अभियंता गुणवत्ता विभाग रे०डि०का०, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यंत्रक अभियंता गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबंधक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



37-989



Modern Coach Factory Raebareli  
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

<b>TYPE COACH</b>	<b>LWACCN</b>	<b>SHELL/COACH NO</b>	<b>181736/C</b>
<b>RAILWAY</b>	<b>NWR</b>	<b>DATE OF DESPATCH</b>	
<b>Sr no</b>	<b>Description of tests</b>		<b>Remarks</b>
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	<b>19.80</b> Cub mtr/min	OK
3.2	Return Air	<b>70.33</b> Cub mtr/min	OK
3.3	Exhaust Air	<b>7.04</b> Cub mtr/min	OK
3.4	Conditioned Air	<b>175.15</b> 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  PP Side : <b>22.8 °C</b> NPP Side : <b>21.2 °C</b>		OK
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		OK

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**FOR ELECTRICAL ITEMS**

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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 : <b>SIDWAL</b> Sr no of RMPU (NPP side): <b>18C 1311</b> Sr no of RMPU (PP side) : <b>18C 1304</b> Sr no of Microprocessor: <b>18.08.1733</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>ABROL</b> Sr no : <b>216-08/2018</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>2018/09/046</b> Sr no.1 : <b>18090048</b> Sr no.2 : <b>18090050</b> Sr no.CPA : <b>2018/09/106</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>VGS</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>ARHAM</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>AGASTYA</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 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</b>
14.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>04</b>
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 04.	<b>09</b>
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 05.	<b>09</b>
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
18.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am- 1,2&3	<b>01 set</b>
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 : <b>HLB</b> Lug date : <b>06/17</b>	EDTS 129,Rev nil	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>ANKUR ENGG.</b>	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>
21.	Battery fuse box +ve Make : <b>INTEG</b>	As per LW 71001,Alt- F	<b>01</b>
22.	Battery fuse box -ve Make : <b>SSK</b>	As per LW 71002,Alt- F	<b>01</b>

  
Senior Section Engineer  
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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 : <b>WAVES</b> Sr no: <b>WEBCF-184608</b> Make : <b>WAVES</b> Sr no: <b>WEBCG-184785</b>	EDTS 163,Rev `c' corg.-2&3	<b>02</b>
24.	Provision of 5KVA TFR Make : <b>VIMAL</b> SL.no : <b>269</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
25.	Provision of capacitor Bank Make : <b>S.INTERNATIONAL</b> SL.no : <b>316-02/18</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
26.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>-6295</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
27.	Inter Vehicle (ZS)coupler Make: <b>PRIME ELECT.</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
28.	Feeder junction boxes. Make : <b>MAA LAXMI INDUSTRIES.</b>	EDTS-328 REV-C	<b>01 set</b>
29.	Wheel set earthling equipment. Make : <b>MAA LAXMI INDUSTRIES.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
30.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>02/18/161</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	<b>01</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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