



# 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/2019-20/150

RLY	C	R	-	Coach No.	1	9	3	5	3	5	/	C	DATE OF DISPATCH	0	9	-	0	5	-	1	9
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DISPATCH TO	SSE/STOCK/ CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	2	2	FUR.NO.	L3T-1173
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -04-2019
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) 1105 (NPPE) 2) 1104 (PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-RAIL TECH	52
		NPP END M/s-RAIL TECH	52
		Complete M/s-RAIL TECH	52
2.	Lav. side wall	M/s-RAIL FAB KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL FAB KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	15/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	15/02
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-OMAX MOHALI	---
5.	Roof	M/s-PIL	40
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END 12327 NPP END 12747

### 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	08 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	DATE OF COMPLETION
1.	Paint	P.U	M/S- VIBGYOR	SUPPLY & APPLY	90/88	18.04.19
2.	Insulation	Satisfactory				

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
रेडिंकॉ, रायबरेली (सालाना)



अभियंता / रायबरेली





MODERN COACH FACTORY, RAEBARELI

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## 8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190466				190465			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-270 (AIR SPIRING)				WIL-271 (AIR SPIRING)			
Bolster no.	AMIT-235				AMIT-226			
Axle No	19 M - 3101 RWF		19 M - 3569 RWF		19 L - 8951 RWF		19 M - 2872 RWF	
Wheel Dia	917.703	917.867	917.726	917.865	917.622	917.598	917.724	917.87
Wheel Disc No	TZ 11-18 09326-8WP8	TZ 11-18 09926-8WT1	TZ 06-17 22033-7ON7	TZ 05-18 19598-8MR8	TZ 07-17 23809-7QJ5	TZ 05-17 24037-8PN9	TZ 11-18 09507-8WM6	TZ 07-17 24658-7QJ4
R.B. Nos.	05-18 38940	05-18 28895	05-18 12974	05-18 28894	12-18 25289	02-19 35347	05-18 12232	05-18 28857
CT R B Make	SKF		SKF		TIMKEN		TIMKEN	

## 9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	TAYAL&CO. Sr.NO. 18-12 1878	TAYAL&CO. Sr.NO. 19-01 1396	TAYAL&CO. Sr.NO. 19-01 1733	TAYAL&CO. Sr.NO. 19-01 1756

## 10. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12061,12045	12663,12049
2.	Primary outer Spring	CMRSK	07-18 03Y(2083,19071993,1685)	07-18 03Y(2034,2020,2036,1890)
3.	Primary Inner Spring	CMGBD	03-19 143-07(383,373,163,426)	03-19 143-07(364,215,348,65)
4.	Primary Damper	KNORR	02-19 (54942,54947,54946,54945)	02-19 (54944,54948,54954,54943)
5.	Secondary Damper	GABRIEL	03-19 (16698,17320)	03-19 (17323,17318)
6.	Lateral Damper	IAI	11-18 1327	11-18 1299
7.	Brake Cylinder	FAV	C19(346,375,372,480)	C19(443,277,378,393)
8.	Brake Caliper	FAV	D19(059,057,106,108)B	D19(144,142,058,060)B
9.	Brake Disc	FAV	03-19 (1922,1921,2108,2106)D-133561-300	03-19 (441,447,2121,2122)D-133561-300
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.	Leveling Valve	KNORR	12-19 B 1133,12-19 B 1124	12-19 B 1169,12-19 B 1393
17.	Check Valve	KNORR	03-19 17353	03-19 17284
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	121218-2,131218-2,121218-2,041218-3	RVE,191218-2,101218-1,121218-2
22.	Control Arm Lower	RVE	RVE,171218-1,171218-1,171218-3	311218-2,RVE,161218-2,171218-2
23.	Phonic Wheel	FAV	FT/KEP/2019	FT/KEP/2019

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 TRANSPORT TECH.INDIA LTD BADDI(HP)	B19163 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19025613B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Fiba Device	M/S- KBI, FARIDABAD	PP-4974/29 NPP-4881/29
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
10.	UIC Vestibule (NPPE)	M/S-ELASTOMER LINING WORKS, MUMBAI	
11.	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/s- BIRKON ENGG.GZB	
14.	Emergency Window	M/s- BIRKON ENGG.GZB	
15.	Lavatory/hopper Window	M/S- TECH FAB KXH	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
19.	Partition panel	M/S-RAIL TECH KXH	
20.	Partition pillar	M/S- J.R. INDUSTRIES LTD. JALANDHAR	
21.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
22.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
23.	Body Side Doors 2,4	M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG	
24.	Body Side Door 1,3	M/s- JVR INDS, LUDHIYANA	
25.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
27.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank	M/s- FLASH FORGE (P)LTD. VIZAG	
30.	Auxiliary Water Tank	M/S- MANOJ ENT,MOHALI	
31.	Under Slung Water Tank ( 2X685L)	M/S- AMIT ENG. MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. MOHALI	
33.	Flexible Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
35.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
36.	Lavatory Modules 1,4	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
37.	Lavatory Modules 2,3	M/s-VISHRAM PREMJEET PATEL & CO, KOLKATA	
38.	Lavatory Doors	M/s-CMT MECHANISED SYSTEM PV. LTD. VADODARA	
39.	Fire Extinguisher	M/S- CAPITAL FIRE COM	PPE-06979,NPPE-06933
40.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
41.	Light Luggage Rack	M/S- TECHNO INDS, ALD.	
42.	Snack Table	M/S- DLJM, NOIDA	

*[Signature]*  
SSE/QC/MCF/RBL



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रैलवे मंत्रालय, नई दिल्ली





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DISPATCH TO	SSE/STOCK/ CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	0	2	2	FUR.NO.	L3T-1173
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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 qualityrcfbl@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 गुणवत्ता विभाग रेडि0का0, रायबरेली (नालगंज)	SME/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली 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

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES				
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	193535/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	19.96 Cub mtr/min		OK
3.2	Return Air	52.20 Cub mtr/min		OK
3.3	Exhaust Air	7.26 Cub mtr/min		OK
3.4	Conditioned Air	174.39 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  PP Side :21.8 °C NPP Side :22.4 °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.			OK

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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 <b>R 407C</b>	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>AMIT ENGG.</b> Sr no of RMPU (NPP side): <b>3483 D</b> Sr no of RMPU (PP side) : <b>3438 C</b> Sr no of Microprocessor: <b>AE 19.03.307</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>366-11-2018</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>2019/02/091</b> Sr no.1 : <b>19010565</b> Sr no.2 : <b>19010702</b> Sr no.CPA : <b>2019/02/083-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>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Door way/Gangway Light Make : <b>RT VISION</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>07</b>
06.	Provision of Passenger area light(Cabin) Make: <b>RT VISION</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>CONCORD</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>K.LITE</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>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>

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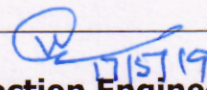
REV NO: 00

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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>HBL</b> Lug date : <b>02/19</b>	EDTS 129,Rev nil	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>TECHNO</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>AECO</b>	As per LW 71001,Alt- F	<b>01</b>
22.	Battery fuse box -ve Make : <b>INTEG</b>	As per LW 71002,Alt- F	<b>01</b>

  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

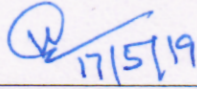
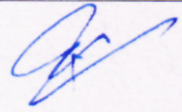
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DATE:18.01.2017

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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 : <b>BHASIN</b> Sr no: <b>01196177</b> Make : <b>BHASIN</b> Sr no: <b>01196195</b>	EDTS 163,Rev `c' corg.-2&3	<b>02</b>
24.	Provision of 5KVA TFR Make : <b>BHASIN</b> SL.no : <b>11182948</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
25.	Provision of capacitor Bank Make : <b>KONTACT</b> SL.no : <b>KT-538</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
26.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-3089 LHB-7196</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>MAA LAXMI INDUSTRIES.</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
28.	Feeder junction boxes. Make : <b>SIDWAL</b>	EDTS-328 REV-C	<b>01 set</b>
29.	Wheel set earthling equipment. Make : <b>DARSHAN INTERPRISES</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
30.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>10/19/361</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>SUPER</b>	As per EDTS -139, Rev- E ,Sec II.	<b>01</b>

	
<b>SSE/EL/QC</b>	<b>AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL</b>

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गुणवत्ता नियंत्रण  
आपरेटिंग/लागू/रायबरेली  
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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