



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/2019-20/808

RLY	C	R	-	Coach No.	1	9	6	8	8	5	/	C	DATE OF DISPATCH	2	9	-	0	9	-	1	9
DISPATCH TO		SSE/STOCK/CSTM		Type	L	W	A	C	C	W	Shell No.	9	2	0	1	3	FUR.NO.		L2T-300		

- Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
- Tare Weight of Coach : 44.5 Tonnes
- Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
- Special feature**
 - A- Due to fitment of L3T roof in L2T shell, more space available in transverse side.
 - B- Extend linen room to accommodate the space NPP end (width 270 mm)
 - C- Height (from floor level to ceiling) raised from 2250mm to 2510mm.
 - C1- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.
 - C2- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.
 - C3- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.
 - D- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)
 - E- 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

F - RFID (Radio frequency identification) fitted for traceability of coach

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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1100 (NPPE) 2) 1097 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- TACPL	03/04
		NPP END M/S- TACPL	03/04
		Complete M/S- TACPL	03/04
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	11/ 01
		RH SIDE MCF/RBL	11/ 02
4.	End wall	PP END M/S -OMAX REWARI	---
		NPP END M/S -OMAX REWARI	---
5.	Roof	M/S - DTL	52
6.	Centre Buffer Coupler	M/s- FRONTIER	PP END 84P1 NPP END 04P2

7. 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/cm². - Max. pressure in BC - All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm ² . OK	08 sec. 3.0 kg/cm ² 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	M/S -AXALTA	M/S-EMPRISE	95/94	17.07.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL

7030000, रायबरेली (उत्तर प्रदेश)



MODERN COACH FACTORY, RAEBARELI

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DISPATCH	SSE/STOCK/CTM	Type	L	W	A	C	C	W	Shell No.	,9	2	0	1	3	FUR.NO	L2T-300
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No.	191036				191035			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-1597				MCF/RBL-728			
Bolster no.	AMIT-325				MCF/RBL-1085			
Axle No	19 P - 2752 RWF		19 R - 1060 RWF		19 P - 7074 RWF		19 P - 7233 RWF	
Wheel Dia.	917.531	917.612	917.507	917.47	917.469	917.377	917.467	917.369
Wheel Disc No	TZ 12-18 19808-8WV1	TZ 12-18 144116-WK0	TZ 11-18 11705-8WS0	TZ 11-18 42128-9PJ0	TZ 12-18 19809-8WV1	TZ 11-18 11701-8WS0	TZ 12-18 19802-8WV1	TZ 12-18 1422-8WK0
R.B. Nos.	08-18-22494	09-18-25692	09-18-26101	09-18-25201	08-18-22496	09-18-25230	09-18-25607	09-18-25327
CT R B Make	TIMKEN		TIMKEN		SKF		SKF	

10. 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.18-11 1282	TAYAL & CO. Sr.NO.18-11 1330	TAYAL & CO. Sr.NO.18-11 1264	TAYAL & CO. Sr.NO.18-11 1259

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12651,14467	12639,14762
2.	Primary outer Spring	CMAFI	05-19 7411(340,333,339,341)	05-19 7411(336,335,338,331)
3.	Primary Inner Spring	CMFSK	06-19 1038-559(186,163,2041,25)	06-19 1038-559(519,254,58,445)
4.	Primary Damper	KONI	03-19 (4999,1364,5013,1680)	03-19 (04996,04977,04975,01583)
5.	Secondary Damper	IAI	01-19 (238126,237949)	01-19 (237916,237939)
6.	Lateral Damper	GABRIEL	11-18 855	11-18 854
7.	Brake Cylinder	KBI	B(4188,3609,3616,4171)K-29	B(1902,19702,1969,1901)K-29
8.	Brake Caliper	KBI	B(1789,2008,2007,1790)K-29	B(4330,3570,3574,4336)K-29
9.	Brake Disc	KBI	24172302 0044-04/19,24172302 0043-04/19 24172302 0042-04/19,24172301 0066-04/19	24172299 0062-04/19,24172299 0061-04/19 24172300 0047-04/19,24172300 0040-04/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	GMT/AR		
12.	Traction Centre make	SF		
13.	Traction lever make	SF/JI		
14.	Ball joint traction lever	ARYAN		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1904,1904	1904,1904
17.	Check Valve	ESCORT	1904	1904
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF/AR,SF/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	270519-2,020619-3,250519-3,250519-3	020619-2,020619-2,120419-2,020619-2
22.	Control Arm Lower	RVE	270519-2,270519-2,280519-3,270519-2	280519-3,280519-3,280519-3,280519-3
23.	Phonic Wheel	KNORR/FAV	K-07-19 640209	FT/KEP/2019

Signature of SSE/Bogie/QC





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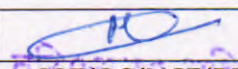
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	W	Shell No.	9	2	0	1	3	FUR.NO.	L2T-300
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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3069 25/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 F 8057
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-7097/29 NPP-7096/29
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	D-coupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s- TWPL 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- SHATABDHI SAFETY GLASS, VADODARA	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/s- HINDUSTAN FIBER GLASS, VADODRA	
17.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Automatic smoke & heat Detection with alarm System	M/S- SANROK ,FARIDABAD	
19.	Supply Air Duct	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
20.	Partition panel	M/S- MOHAN RAIL COMPONENT PVT.LTD.KXH	
21.	Partition pillar	M/S- RAIL FAB KXH	
22.	Side Wall panel	M/s- KINECO PVT.LTD. GOA	
23.	AC Trough	M/s-BHARAT FIBER , LKO	
24.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Compartment Door (PPE)	M/S- HANSAL TRADERS, KXH	
26.	Compartment Door (NPPE)	M/S- HANSAL TRADERS, KXH	
27.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank	M/S- RAIL FAB KXH	
30.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG. MOHALI	
32.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
33.	Health Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA	
34.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA	
35.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
36.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS, VADODRA	
37.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA	
38.	Fire Extinguisher	M/S-ASHOKA ENG.	PP-3700 NPP-3701
39.	Seat & Berth	M/s- HINDUSTAN FIBER GLASS, VADODRA	
40.	Light Luggage Rack	M/S- LUCKY ENT. GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. GURUGRAM	
42.	RFID	M/S-TECH SOLUTION PVT LTD	Sr.104269,104270


SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिंक ०, रायबरेली (जालगाँव)



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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 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 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	SME/QC/MCF/RBL	Dy.COM/MCF/RBL

गुणवत्ता विभाग
रेल डिब्बा कारखाना, रायबरेली (लालगंज)

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

जोगिन्दर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

2T-300

MCF/RBL



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCW	SHELL/COACH NO	196885/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	19.88 Cub mtr/min		OK
3.2	Return Air	54.14 Cub mtr/min		OK
3.3	Exhaust Air	5.80 Cub mtr/min		OK
3.4	Conditioned Air	198.39 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 :22.4 ⁰ C NPP Side :21.6 ⁰ 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			--

Senior Section Engineer
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T 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	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED R 407C	OK

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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 1(NPP side): 3852 H Sr no of RMPU 2(PP side): 3746 G Sr no of Microprocessor: AE 18.08.638	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-753	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2019/07/0021 Sr no.1: 2883 Sr no.2: 2902 Srno.CPA: 2019/08/031-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
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: 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

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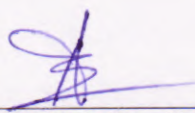
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: KAVERI	LW 76005,Alt-e	02
16.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
17.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
18.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
21.	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
22.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am-1,2&3	01 set


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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	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 : 07/18	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : RADIANT	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
27.	Emergency battery charger Make : M.B & COMPANY Sr no: 201908369 Make : M.B & COMPANY Sr no: 201908378	EDTS 163,Rev `c` corg.-2&3	02
28.	5KVA Transformer Make: WAVES SL.no : WLDT 5L 18409	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: KONTACT SL.no : KT-933	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1444	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	ZS coupling 400A/750V/03Ph/50hz. Make : MAA LAXMI INDUSTRIES	As per spec No EDTS 105,Rev`e` Am-2	02 sets
32.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 46/18/867	M/s : FAIVELEY	01 set
35.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	00

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL

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

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