



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/2018-19/1407

RLY	S	E	R	Coach No.	1	9	2	1	9	5	/	C	DATE OF DISPATCH	2	8	-	0	3	-	1	9
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DISPATCH TO	SSE/SRC	Type	L	W	A	C	C	W	Shell No.	8	3	3	9	0	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2019/M(C)/142/2, Dated- 12.03.2019
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
4. Special feature

- A - Provision of AC-3T seat & berth for AC-2T seating format on 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.

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) 1105 (NPPE) 2) 1096 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-RAIL TECH	24
	Front Part	NPP END M/s-RAIL TECH	24
	Complete	M/s-RAIL TECH	24
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)	439/01
		RH SIDE MCF/RBL (CONTRACTOR V4U)	439/02
4.	End wall	PP END MCF/RBL(SIS)	---
		NPP END MCF/RBL(SIS)	---
5.	Roof	M/S - DTL, PUNE	128
6.	Centre Buffer Coupler	M/S- SANROK ,FARIDABAD	PP END 14944 NPP END 11906

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/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 - 10 sec. 3.0 ±0.15 kg/cm ² . OK	06 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
1.	Paint	P.U	M/S -VIBGYOR	SUPPLY & APPLY	90/88
2.	Insulation			Satisfactory	

Sd/-
SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATERolling Stock Certificate No.: MCF/RBL/QC/**RSC-1407**

Coach No.	1	9	2	1	9	5	/	C	-	DATE OF DISPATCH	2	8	.	0	3	.	1	9
RLY	S	E	R	-	Type	L	W	A	C	C	W	Shell No.	8	3	3	9	0	-

DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	181758				181757			
Bogie Type	FLAT				FLAT			
Frame no.	WIL-112				WIL-111			
Bolster no.	AMIT-77				AMIT-74			
Axle No	18 D - 9397 RWF		18 F - 2575 RWF		18 F - 2499 RWF		17 F - 2983 RWF	
Wheel Dia	917.656	917.673	917.498	917.592	917.609	917.637	917.625	917.65
Wheel Disc No	TZ-05-18 25030-8RM1	TZ-06-18 11295-8MW6	TZ-07-18 24560-7QK4	TZ-07-18 25584-7QJ7	TZ-05-18 25042-8MR1	TZ-04-18 11656-8MV6	TZ-04-18 11657-8MV6	TZ-05-18 25041-8MR1
R.B. Nos.	06-18 16233	06-18 19387	05-18 14297	05-18 13767	05-18 13776	05-18 14474	05-18 13781	05-18 14482
CT R B Make	SKF		SKF		SKF		SKF	

SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	TAYEL & CO.	TAYEL & CO.	TAYEL & CO.	TAYEL & CO.
	Sr.NO-18-11 1242	Sr.NO-18-11 1263	Sr.NO-18-11 1235	Sr.NO-18-08 782

TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	239394,239330	238641,239603
2.	Primary outer Spring	CMRSK	08-18 03Y(3410,1844,1496,4678)	08-18 03Y(3360,4691,1136,1884)
3.	Primary Inner Spring	CMRSK	11-18 04Y(5889,5280,7152,6051)	11-18 04Y(4888,5851,6918,5754)
4.	Primary Damper	KNORR	12-18 (47350,47255,47244,47309)	12-18 (47469,47253,47324,47482)
5.	Secondary Damper	IAI	12-18(230850,231071)	12-18(230923,231017)
6.	Lateral Damper	GEREP	16-2018 301550559	16-2018 301550559
7.	Brake Cylinder	FAV	(L18-612,L18-294,K18-758,K18-165)	(K18-162,740,L18-292,608)
8.	Brake Caliper	FAV	N18(367,365,414,416)B	N19(415,362,362,364)B
9.	Brake Disc	KBI	24167531 0035-44/18,24167532 0031-43/18 24168003 0017-48/18,24168003 0061-48/18	24167532 0030-44/18,24160003,0020-48/18 24167532 0029-44/18,24167531 0034-44/18
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		
17.	Check Valve	KNORR	06-18 A6958,06-18 A 6916	06-18 A 6805,06-18 A 6952
18.	Anti roll bar make	EMSON	10-18 14743	10-18 14742
19.	Roll Link make	SARITA/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	091218-1,051218-3,0512183,041518-3	031218-3,041218-3,031218-2,051218-3
22.	Control Arm Lower	RVE	051218-4,051218-2,191118-3,081118-3	061218-3,071218-1,061218-1,071218-1
23.	PHONIC	KNORR	K-12-18	K-12-18

Signature of SSE/Bogie/QC



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DISPATCH TO	SSE/SRC	Type	L	W	A	C	C	W	Shell No.	8	3	3	9	0	-	2	0	1	8	-	1	9

12 TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	B 19098 B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19025590 B
3.	Pull box	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Fiba Device	M/s- KBI, FARIDABAD	PP/NPP-1935/1944
5.	Foot Step	M/s- SUPER SPARKS PVT. LTD. FARIDABAD	
6.	D-coupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s- T.W.P.L. INDUS. MUMBAI	
8.	PVC	M/S PREMIER POLYFILM, GZB	
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- RAKESH IRON STORE, KXH	
12.	Gangway bridge mounting (NPPE)	M/S- RAKESH IRON STORE, KXH	
13.	Body Side Window	M/s- BIRKON ENGG.GZB	
14.	Emergency Window	M/s- BIRKON ENGG.GZB	
15.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED, JUC	
18.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/S- SIDDHU INTERNATIONAL CO. ORG.(SICO) KXH	
21.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
22.	AC Trough	M/s- MEENA FIBER GLASS INDUS. PUDUCHERY	
23.	Body Side Doors	M/S- JVR INDUSTRIES, LDH	
24.	Compartment Door (PPE)	M/S- HANSPAL TRADERS. KXH	
25.	Compartment Door (NPPE)	M/S- HANSPAL TRADERS. KXH	
26.	Vestibule Door(PPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LTD.LDH	
27.	Vestibule Door(NPPE)	M/S -KALSI AUTOMATIC DOOR SYSTEM LTD.LDH	
28.	Bio Tank	M/s- RAIL FAB, KAPURTHALA	
29.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
32.	Flexible Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
33.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
34.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
35.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
37.	Fire Extinguisher	M/S-SAFE PRO FIRE SERVICE LTD.	PP-7204,NPP-7051
38.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
39.	Light Luggage Rack	M/S- TECHNO INDUSTRIES, ALLAHABAD	
40.	Snack Table	M/s- INTERNATIONAL TRACTOR LTD. JALANDHAR	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (जालगंज)



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DISPATCH TO	SSE/SRC	Type	L	W	A	C	C	W	Shell No.	8	3	3	9	0	-	2	0	1	8	-	1	9
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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 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
रेडि०का०, रायबरेली (लालगंज)

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareli

2T-T-27



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

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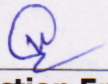
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FOR ELECTRICAL ITEMS

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	192195/C
RAILWAY	SER	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	22.85Cub mtr/min	OK
3.2	Return Air	77.80Cub mtr/min	OK
3.3	Exhaust Air	6.16 Cub mtr/min	OK
3.4	Conditioned Air	137.22Cub 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		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 due to Ambient temp. below 22°C		OK


 Senior Section Engineer
 Quality control / Electrical
 Modern Coach Factory Raebareli



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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	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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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

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 1(NPP side) 781/18 Sr no of RMPU 2(PP side): 782/18 Sr no of Microprocessor: AE 18.12.073	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : TRINITRON Sr no : TCS/RBL/3371/073/025	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: KALSISr no PA:7718/10/18 Sr no.1: 298875 Sr no.2: 298876 Srno.CPA: 2018/12/057-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: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make: CMT	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: AGASTYA	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04

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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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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 : HBL Lug date : 1/19	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: TECHNO INDUSTRIES	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : NEC	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : NEC	LW 71002,Alt-F	01
27.	Emergency battery charger Make : BHASIN Sr no: 01196102 Make : BHASIN Sr no: 01196116	EDTS 163,Rev `c' corg.-2&3	02
28.	5KVA Transformer Make: BHASIN SL.no : 09180020	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Capacitor Bank Make: KONTACT SL.no : KT-563	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-111	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 : AECO	EDTS-328 REV-C	02
33.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02
34.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr no : 40-18-1178	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
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आ०रे०डि०का० / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

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

