LT-268

Modern Coach Factory Raebareli **आधुनिक रेल डिब्बा कारख़ाना, 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/2018-19/972

RLY	C	R	-	Coach No.	1	8	2	9	0	8	/	C	DATE OF DISPATCH	3	0	-	1	2	-	1	8

DISPATCH TO	Sr.DME/C&W /DNR	Type	L	W	A	C	C	W	Shell No.	8	2	0	4	3	-	2	0	1	8	-	1	9

1. Railway Board's Order No. : **2018/M(C)/142/2 Dated-17.10.18**
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1)1099 (NPPE) 2)1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Under frame	Front Part	PP END	M/s- RAIL TECH	12			
			NPP END	M/s- RAIL TECH	12			
		Complete	M/s- RAIL TECH		12			
2.	Lav. side wall		MCF/RBL(CONTRACTOR V4U)		LAV.1	89	LAV.2	90
			MCF/RBL(CONTRACTOR V4U)		LAV.3	91	LAV.4	92
3.	Side wall	LH SIDE	MCF/RBL(CONTRACTOR V4U)		44/01			
		RH SIDE	MCF/RBL(CONTRACTOR V4U)		44/02			
4.	End wall	PP END	M/s- OMAX, REWARI		---			
		NPP END	M/s- OMAX, REWARI		---			
5.	Roof		M/s- DTL, PUNE		24			
6.	Centre Buffer Coupler		M/s- SANROK ENT.		PP END	9884	NPP END	9829

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/cm². ➢ Max. pressure in BC ➢ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm². OK	06 sec. 3.0 kg/cm² OK
2.	Insensitivity	➢ Exhaust BP @ 0.3 kg/cm²/min.	No brake application	OK
3.	Sensitivity	➢ Exhaust BP @ 0.1 kg/cm²/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 –BERGER	SUPPLY & APPLY	90/89
2.	Insulation		Satisfactory		

SSE/QC/MCF/RBL

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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 CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/**972**

Coach No.	1	8	2	9	0	8	/	C	-	DATE OF DISPATCH	3	0	.	1	2	.	1	8

RLY	C	R	-	-	Type	L	W	A	C	C	W	Shell No.	8	2	0	4	3	-	-	-	-	-	-	-	-

8. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	182268				182267			
Bogie Type	LWACCW				LWACCW			
Frame no.	VS-1453				VS-1449			
Bolster no.	MCF/RBL-1946				APEX-412			
Axle No	18H-2404 RWF		18H- 2660 RWF		18H- 2507 RWF		18H-2755 RWF	
Wheel Dia	917.504	917.72	917.568	917.531	917.489	917.668	917.534	917.464
Wheel Disc No	*TZ-04-18 15824-8MT1*	*TZ-07-18* 41560-8RS2	*TZ-07-18* 15821-8MT1	*TZ-07-18* 40174-8RL9	*TZ-07-18 41558-8RR0*	*TZ-07-18* 40498-8RQ1	*TZ-04-18* 15781-8MX1	*TZ-07-18* 36258-8RS0
R.B. Nos.	*05-18 36607*	05-18 13630	05-18 26943	05-18 26748	05-18 36788	*05-18 40840*	05-18 27897	05-18 26867
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.	CMRSK06-16-F18-L55-231	CMFSK10-18-9513-401-80	CMRSK06-16-F18-L55-253	CMFSK10-18-9513-475-253	CMRSK05-18-F18-R05-18Y-698	CMFSK10-18-9513-475-235	CMRSK05-18-F18-R04-18Y-886	CMFSK10-18-9513-475-24
Compressed Ht. at Tested Load	508	467	509	467	512	468	511	463
Alignment deviation (mm)	3	10	5	10	19	10	17	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1310,1311	1323,1324
2.	Primary outer Spring	CMRSK/RSK	08-18 03Y(8983,3974,4008,3965)	08-18 03Y(3893,3912,3981,3951)
3.	Primary Inner Spring	CMRSK/RSK	02-18 02Y(352,3011,2395,3176)	02-18 02Y(3312,3321,2317,61)
4.	Primary Damper	KNOOR	12-17(13404,14254,14307,13168)	12-17(13281,14287,13827,13483)
5.	Secondary Damper	GB	10-18(5101,5101)	10-18(000300,000297)
6.	Lateral Damper	SV	01-18 019943	01-18 019949
7.	Brake Cylinder	FAV	K18(279,337,492,459)	K18(284,493,219,419)
8.	Brake Caliper	FAV	L18(760,757,741,744)B	L18(743,742)B,H18(982,982)B
9.	Brake Disc	FAV	11-18(5659,5658,5601,5602)D133561-300	11-18(5432,5429,5327,5326)D133561-300
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	TECSPAK		
17.	Rubber Spring	AR		
18.	Anti roll bar make	EMSON/WOM		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	130918-1,130918-1,130918-1,130918-1	130918-1,291918-1,311018-2,270918-3
22.	Control Arm Lower	RVE	091118-1,190918-1,291018-1,291018-2	281918-3,RVE,290918-2,291018-2

Signature of SSE/Bogie/QC

	Modern Coach Factory Raebareli **आधुनिक रेल डिब्बा कारख़ाना, 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/2018-19/972

RLY	C	R	-	Coach No.	1	8	2	9	0	8	/	C	DATE OF DISPATCH	3	0	-	1	2	-	1	8

DISPATCH TO	Sr.DME/C&W /DNR	Type	L	W	A	C	C	W	Shell No.	8	2	0	4	3	-	2	0	1	8	-	1	9

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)	L 18137 B
2.	Distribution valve	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18105713 B
3.	Pull box	M/s- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	
4.	Foot Step	M/s- SUPER SPARKS PVT. LTD. FARIDABAD	
5.	D-coupling arrangement	M/s- ELASTOMER LINING WORKS, MUMBAI	
6.	Floor board	M/s- SHRI RAM PANELS, PUNJAB	
7.	PVC	M/s- RESPONSIVE INDS. LTD. MUMBAI	
8.	UIC Vestibule (PPE)	M/S-KRP LTD. KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
10.	Gangway bridge mounting (PPE)	M/s- RAKESH IRON STORE,(RIS) KXH	
11.	Gangway bridge mounting (NPPE)	M/s- RAKESH IRON STORE,(RIS) KXH	
12.	Body Side Window	M/s- BIRKAN ENGG.PVT.LTD.GAZIABAD	
13.	Emergency Window	M/s- BIRKAN ENGG.PVT.LTD.GAZIABAD	
14.	Hopper Window	M/S- TECH FAB, KXH	
15.	Roof Ceiling	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
16.	Door way /gang way ceiling	M/s- J.R. INDUSTRIES, JALANDHER	
17.	Supply Air Duct	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
18.	Partition panel	M/s- MOHAN SINGH &CO.	
19.	Partition pillar	M/S- RAIL FAB, KXH	
20.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS WORKS, VADODRA (GUJARAT)	
21.	AC Trough	M/s- KAL ENGG. PVT.LTD. U.K.	
22.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
24.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
26.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Bio Tank	M/s- RASANDIK ENG. INDUSTRIES	
28.	Auxiliary Water Tank	M/s- AMIT ENGG. MOHALI	
29.	Under Slung Water Tank(1x450 L)	M/s- AMIT ENGG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- AMIT ENGG. BADDI	
31.	Flexible Faucet	M/S- HINDUSTAN FIBER GLASS VADODRA (GUJARAT)	
32.	Lotah Filler Tap	M/S- HINDUSTAN FIBER GLASS VADODRA (GUJARAT)	
33.	Bib cock	M/s- JAQUAR PVT.LTD. ALWAR	
34.	Lavatory Modules	M/s- HINDUSTAN FIBER GLASS VADODRA (GUJARAT)	
35.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS VADODRA (GUJARAT)	
36.	Fire Extinguisher	M/S- SAFE PRO FIRE SERVICE.	PP-7078,NPP-7184
37.	Seat & Berth	M/s- HINDUSTAN FIBER GLASS VADODRA (GUJARAT)	
38.	Light Luggage Rack	M/S- TECHNO INDUSTRIES, ALLAHABAD	
39.	Snack Table	M/s- INTERNATIONAL TRACTOR LTD. JALANDHAR	

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Modern Coach Factory Raebareli **आधुनिक रेल डिब्बा कारख़ाना, 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/2018-19/972

RLY	C	R	-	Coach No.	1	8	2	9	0	8	/	C	DATE OF DISPATCH	3	0	-	1	2	-	1	8

DISPATCH TO	Sr.DME/C&W /DNR	Type	L	W	A	C	C	W	Shell No.	8	2	0	4	3	-	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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. 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.

वरि0अन0 अभियंता गुणवत्ता विभाग रे0डि0का0, रायबरेली (उ0प्र0)	सहायक यांत्रिक अभियन्ता/गुणवत्ता-II Assistant Mechanical Engineer / Quality-II आधुनिक रेल डिब्बा कारख़ाना, रायबरेली Modern Coach Factory, Raebareli	जोगिन्दर सिंह Joginder Singh उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारख़ाना, रायबरेली Modern Coach Factory, Raebareli
SSE/QC/MCF/RBL	AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

2T- 268

Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारख़ाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001 REV NO: 00 DATE:18.01.2017	

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES			
TYPE COACH	**LWACCW**	**SHELL/COACH NO**	**182908/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 PREACTICE 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	**51.27** Cub mtr/min	OK
3.3	Exhaust Air	**6.74** Cub mtr/min	OK
3.4	Conditioned Air	**192.42** 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 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

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

Senior Section Engineer
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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 : **SIDWAL** Sr no of RMPU 1(NPP side): **18 L 2004** Sr no of RMPU 2 (PP side): **18 L 2005** Sr no of Microprocessor:**18.10.1851**	As per rdso/pe/spes/ac/0061/rev-1/2005	**02**
02.	Switch board cabinet Make :**ISG** Sr no :**SBC-MCF-18-09-0222**	As per spec no .EDTS073,REV-D,AM-6	**01**
03.	Pump equipment with PLC controller& pump box Make : **KALSI** Sr no PA : **7472/9/18** Sr no.1 : **296933** Sr no.2 : **296934** Srno.CPA:**7367/08/2018**	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: **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**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

MCF/RBL

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: **AGASTYA**	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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Modern Coach Factory Raebareli

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 : **01/18**	EDTS 129,Rev nil	**01 set**
24.	Battery box for LHB coaches. Make : **ANKUR ENGG.**	As per drgno 1 10113 0 76 700 005,Alt C	**01**
25.	Battery fuse box +ve Make :**INTEG**	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: **10181776** Make : **BHASIN** Sr no: **10181786**	EDTS 163,Rev `c' corg.-2&3	**02**
28.	5KVA Transformer Make : **VIMAL** SL.no :**-907**	As Per EDTS-366,REV-NIL & CC-71510	**01**
29.	Capacitor Bank Make : **S.INTERNATIONAL** SL.no :**430-07/18**	As per EDML-130 Rev-1,Corr-1	**01**
30.	60KVA transformer Make : **VIMAL** Sr no :**-6910**	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 :**SIDWAL**	EDTS-328 REV-C	**02**
33.	Wheel set earthling equipment. Make : **MAA LAXMI INDUSTRIES**	EDTS101,REV-C,AM-1	**02**
34.	Wheel Slide Protection System (WSP) Make :**FAIVELEY** Sr no :**39-18-1624**	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.	**01**

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आरडीडिओका / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	**SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL** वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr Electrical Engineer / RCF / RBL / Lucknow

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