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/2019-20/890

RLY	C	R	-	Coach No.	1	9	7	0	9	9	/	C	DATE OF DISPATCH	1	6	-	1	0	-	1	9

DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	6	0	FUR.NO.	L3T-1293

1. Railway Board's Order No. : **2019/M(C)/142/2, dated -13 -06-2019**
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. **Special feature: 1-** 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

2- 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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1105 (NPPE) 2) 1104 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM		MAKE/SUPPLIER		SERIAL NO			
1.	Under frame	Front Part	PP END	M/s-TACPL	29/87			
			NPP END	M/s-TACPL	29/87			
		Complete	M/s-TACPL		29/87			
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(CONTRACTOR V4U)		163/ 01			
		RH SIDE	MCF/RBL(CONTRACTOR V4U)		163/ 02			
4.	End wall	PP END	M/s-RAIL TECH KXH		---			
		NPP END	M/s-RAIL TECH KXH		---			
5.	Roof		M/s-PIL		178			
6.	Centre Buffer Coupler		M/S- ESCORTS LTD		PP END	1545	NPP END	1531

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/cm². OK	08 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

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-VIBGYOR	(SUPPLY & APPLY)	90/89	19.09.19
2.	Insulation	Satisfactory				

SSE/QC/MCF/RBL

वरिष्ठ अनुभाग अभियंता
गुणवत्ता विभाग

	MODERN COACH FACTORY, RAEBARELI आधुनिक रेल डिब्बा कारख़ाना, 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/2019-20/**890**

RLY	C	R		Coach No.	1	9	7	0	9	9	/	C	-	DATE OF DISPATCH	1	6	1	0	2	0	1	9

DISPATCH	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	6	0	FUR .NO	L3T-1293

9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	191515				191516			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-114				ECBT-71			
Bolster no.	AMIT-416				AMIT-397			
Axle No	19 R – 7047 RWF		19 S - 0506 RWF		19 S – 0409 RWF		19 R – 6574 RWF	
Wheel Dia	917.432	917.343	917.307	917.313	917.47	917.375	917.38	917.305
Wheel Disc No	TZ 04-19 40659-9QE3	TZ 05-19 43484-9PF1	TZ 06-19 55947-9QI2	TZ 06-19 60926-9QI9	TZ 06-19 61004-9QJ9	TZ 06-19 61001-9QJ9	TZ 04-19 36869-9OD3	TZ 09-19 31694-9OD3
R.B. Nos.	09-18-23100	09-18-23098	09-18-22380	09-18-22766	09-18-22701	09-18-21532	09-18-22736	09-18-22741
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

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. 19-05 0657	TAYAL & CO. Sr.NO. 18-09 1037	TAYAL & CO. Sr.NO. 19-08 2846	TAYAL & CO. Sr.NO. 19-08 3237

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	12366,12359	12358,12357
2.	Primary outer Spring	CMFSK	03-19 7411-545(7021,1148,1147,766)	03-19 7411-545(924,508,1264,2633)
3.	Primary Inner Spring	CMFSK	05-19 7143-559(1180,7340,7540,1170)	05-19 7143-559(1304,2493,1357,1317)
4.	Primary Damper	KONI	03-19 (02929,05144,04297,03789)	03-19 (05123,04651,04305,05589)
5.	Secondary Damper	KONI	04-19 (06857,03737)	04-19 (03689,03377)
6.	Lateral Damper	GABRIEL	11-18 1150	11-18 1158
7.	Brake Cylinder	FAV	E19(399,160,156,446)	E19(023,111,068,018)
8.	Brake Caliper	FAV	E19(1715,1713,1714,176)B	E19(627,62,562,6628)B
9.	Brake Disc	KBI	24185221 0078-18/19,24185222 0028-18/19 24178934 0012-11/18,24178934 0009-11/19	24185221 0069-18/19,24185221 0075-18/19 24173459 0029-09/19,24193459 0030-09/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	AR/GMT		
16.	Leveling Valve	KNORR	19 A 10083,19 A 10272	19 A 10052,19 A 10102
17.	Check Valve	KNORR	02-19 16644	02-19 **16520**
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/BASANT, SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	140619-2,100619-3,140619-2,149619-2	210619-3,210619-2,210619-2,120619-2
22.	Control Arm Lower	RVE	310519-2,010619-1,010619-2,140519-2	120719-1,210619-3,0110619-2,230619-2
23.	Phonic Wheel	KNORR	K-08-19	K-08-19

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/2019-20/890

RLY	C	R	-	Coach No.	1	9	7	0	9	9	/	C	DATE OF DISPATCH	1	6	-	1	0	-	1	9

DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	6	0	FUR.NO.	L3T-1293

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)	F19005B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19065502B
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	7664/29 7527/29
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	
7.	Floor board	M/s-O.V.P.L. MUMBAI	
8.	PVC	M/S- PREMIER POLYFILM, GZB	
9.	UIC Vestibule (PPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
10.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/s- SHATABDI SAFTY GLASS VADODARA	
14.	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/s- GANDHI SAFE & ALLIED INDUS. JALANDHAR	
18.	Supply Air Duct	M/S- HANSPAL TRADERS, KXH	
19.	Partition panel	M/s-RAIL TECH KXH	
20.	Partition pillar	M/S- SIDHU INTERNATIONAL CO. ORG.(SICO) KXH	
21.	Side Wall panel	M/S-ALEX OVER SEAS PVT LTD KXH	
22.	AC Trough	M/S-MEENA FIBER GLASS INDUS PUDUCHERY	
23.	Body Side Doors 1,3	M/s- JVR INDS, LUDHIYANA	
24.	Body Side Doors 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Compartment Door (PPE)	M/S- HANSPAL TRADERS, KXH	
26.	Compartment Door (NPPE)	M/S- HANSPAL TRADERS, KXH	
27.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
28.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
29.	Bio Tank	M/S- JSL LIFE STYLE LTD. ROHTAK	
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 FIBRE GLASS WORKS,VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
35.	Bib cock	M/s- JAQUAR PVT. LTD. ALWAR	
36.	Lavatory Modules 1,2	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
37.	Lavatory Modules 3,4	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
38.	Lavatory Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
39.	Fire Extinguisher	M/s-SAFETY PLUS	PPE-2032 ,NPPE-2034
40.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTER PRISES	
41.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
42.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGAON	
43.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
44.	RFID	M/s-TECH SOLUTION GURGAON	Sr.-104283-104284

वरि0अनु0अभियंता
SSE/OC/MCF/RBL
वै0डि0का0, रायबरेली (लालगंज)

MCF/RBL

	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/2019-20/890

RLY	C	R	-	Coach No.	1	9	7	0	9	9	/	C	DATE OF DISPATCH	1	6	-	1	0	-	1	9			

DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	6	0	FUR.NO.	L3T-1293

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:

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.

SSE/QC/MCF/RBL	SME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरि० उप० अभियंता
गुणवत्ता विभाग
रे०डि०का०, रायबरेली (लालगंज)

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

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

रे०डि०का०, रायबरेली (लालगंज)

MCF/RBL

3T-1293

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 AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

TYPE COACH	**LWACCN**	**SHELL/COACH NO**	**197099/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	**19.65** Cub mtr/min	OK
3.2	Return Air	**72.57** Cub mtr/min	OK
3.3	Exhaust Air	**7.15** Cub mtr/min	OK
3.4	Conditioned Air	**162.70** 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 :**21.1^{0}C** NPP Side :**20.7^{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
Quality control / Electrical
Modern Coach Factory Raebareli

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 **R 407C**	OK

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

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 : **SSK** Sr no of RMPU (NPP side): **1043/19** Sr no of RMPU (PP side) : **1045/19** Sr no of Microprocessor: **AE 19.03.344**	As per rdso/pe/spes/ac/0061/rev-1/2005	**02**
02.	Switch board cabinet Make : **AMIT ENGG.** Sr no : **AE/SB-925**	RDSO/PE/SPEC/AC/0184-2015 REV-0	**01**
03.	Pump equipment with PLC controller & pump box Make : **DR AUTO** Sr no PA : **2019/08/0072** Sr no.1 : **19080450** Sr no.2 : **19080389** Sr no.CPA : **2019/09/007-DR AUTO**	As per spec EDTS 186,Rev-a, Am- 2	**01**
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make :**INTEG**	EDTS331, TYPE-1 CORR.-1&2	**02**
05.	Door way/Gangway Light Make : **RT VISION**	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	**07**
06.	Provision of Passenger area light(Cabin) Make: **RT VISION**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	**09**
07.	Corridor Light with Night light Make: **RT VISION**	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	**09**
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 : **DR AUTO**	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**
11.	Passenger alarm coach indication light Make : **KAVERI**	LW 76005,Alt-e	**02**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

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 : **SSK**	EDML 047,Rev nil	**04**
13.	Terminal strip Make :**WAGO**	EDML 034,Rev-a	**01 SET**
14.	Terminal connector Make :**WAGO**	EDML 037,Rev`a'	**1 SET**
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : **SSK**	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	**18**
16.	Provision of 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.	**54**
17.	PA system for LHB coaches Make :**AHUJA**	EDTS 173,Rev- a Am-1,2&3	**01 set**
18.	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 : **03/19**	EDTS 129,Rev nil	**01 set**
19.	Battery box for LHB coaches. Make : **HITECH**	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	**01**
20.	Battery fuse box +ve Make : **RADIANT**	As per LW 71001,Alt-F	**01**
21.	Battery fuse box –ve Make : **RADIANT**	As per LW 71002,Alt-F	**01**
22.	Reading light for longitudinal berth (LHS) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	**9**

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	**27**
24.	Reading light for transverse berth (RHS) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	**18**
25.	Reading light for berth transverse (LHS) Make: **DR AUTO**	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	**18**
26.	Emergency battery charger Make : **BHASIN** Sr no: **08198954**	EDTS 163,Rev `c' corg.-2&3	**01**
27.	Regulated battery charger Make :**EEC** Sr no: **12180025**	RDSO/PE/SPEC/AC/0183 (REV -0)	**01**
28.	Provision of 5KVA TFR Make : **VIMAL** SL.no : **VTC-3089 LHB-1062**	As Per EDTS-366,REV-NIL & CC-71510	**01**
29.	Provision of capacitor Bank Make :**KONTACT** SL.no :**KT-865**	As per EDML-130 Rev-1,Corr-1	**01**
30.	60KVA transformer Make : **VIMAL** Sr no : **VTC-R- 3089 LHB-1872**	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	**01**
31.	Inter Vehicle (ZS)coupler Make: **PRIME ELECT.**	As per RDSO PE SPEC-0177-2013 REV-0	**01 set**
32.	Feeder junction boxes. Make : **INDORAIL**	EDTS-328 REV-C	**01 set**
33.	Wheel set earthling equipment. Make : **DARSHAN ENTERPRISES**	EDTS101,REV-C,AM-1	**02 sets**
34.	Wheel Slide Protection System (WSP) Make : **FAIVELEY** Sr no : **06/19/176**	M/s : **FAIVELEY**	**01 set**
35.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : **NIL**	As per EDTS -139, Rev- E ,Sec II.	**00**

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