



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF
8002/FAC

REV NO:00

DATE: 28.09.19

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/916

RLY	C	R	-	Coach No.	1	9	7	1	4	2	/	C	DATE OF DISPATCH	2	0	-	1	0	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	F	A	C	-	Shell No.	9	1	0	0	8	FUR.NO.	FAC-06
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1. Railway Board's Order No. : 2019M(C)/142/2, DATE : 13-06-2019
2. Tare Weight of Coach : Tonnes
3. Carrying Capacity : (a) Seating: 24 (b) Sleeping: 24 (c) Luggage: NIL

4. **Special feature:** - A-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

B- 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) 1099 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-M.TECH	410
	Front Part	NPP END M/s-M.TECH	402
	Complete	MCF/RBL/SIS	134
2.	Lav. side wall	M/S RAIL TECH KAPURTHALA	LAV.1
		M/S RAIL TECH KAPURTHALA	LAV.2
3.	Side wall	LH SIDE MCF/RBL	LAV.3
	RH SIDE	MCF/RBL	LAV.4
4.	End wall	PP END M/s-RSM MOHALI	06/01
	NPP END	M/s-RSM MOHALI	06/02
5.	Roof	MCF/CONT.	
6.	Centre Buffer Coupler	M/s-ESCORT	06
		PP END 9864	NPP END 9843

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	07 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-VIBGYOR	SUPPLY & APPLY	90/89	25.06.19
2.	Insulation					

Satisfactory

वर्तमान में
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)



गुणवत्ता / गुणवत्ता



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/2019-20/916

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191532							
Bogie Type	FIAT				191531			
Frame no.	WIL-053				FIAT			
Bolster no.	SCI-255				WIL-059			
Axle No	19 R- 7396 RWF				SCI-256			
Wheel Dia	917.467	917.371	917.494	917.261	917.585	917.361	917.596	917.368
Wheel Disc No	TZ 03-19 32218-90I5	TZ 04-19 35206-90J4	TZ 05-19 42798-9PH5	TZ 04-19 37322-90J4	TZ 02-19 27996-9MJ4	TZ 05-19 49693-9RJ1	TZ 02-19 27993-9MJ4	TZ 05-19 42799-9PH5
R.B. Nos.	07-19-20564	07-19-21613	07-19-19320	07-19-21054	07-19-17773	07-19-20507	07-19-20633	07-19-17809
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
	AVADH RAIL INFRA Sr.NO.09-18 578	AVADH RAIL INFRA Sr.NO.09-18 935	AVADH RAIL INFRA Sr.NO.09-18 836	AVADH RAIL INFRA Sr.NO.09-18 534

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	18496,18513	18511,18504
2.	Primary outer Spring	CMFSK	05-19 7411-551(560,565,248,309)	05-19 7411-551(287,557,387,254)
3.	Primary Inner Spring	CMSTL	02-18 02A (7941,8598,8611,8570)	02-18 02A (7823,8629,8134,8608)
4.	Primary Damper	KONI	03-19 (05644,65530,65680,65629)	03-19 (65617,65611,65550,65564)
5.	Secondary Damper	KONI	04-19(05840,05908)	04-19(03651,03665)
6.	Lateral Damper	KONI	04-19 00946	04-19 00162
7.	Brake Cylinder	FAV	H19(465,338,561,522)	H19(536,015,016,472)
8.	Brake Caliper	FAV	K19(576,575,574,577)B	K19(677,675,674,676)B
9.	Brake Disc	FAV	06-19 (5913,5910,5912,5898)D 133561-300	06-19 (6081,6080,5889,5888) D 133561-300
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	AR		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	19 B 3848, 19 B 3611	19 A 10288, 19 B 03943
17.	Check Valve	KNORR	02-19 18727	02-19 18608
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT, SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	280619-1,280619-2,280619-2,280619-2	210619-1,280619-1,280619-2,280619-1
22.	Control Arm Lower	RVE	240719-2,240719-3,290719-1,280819-4	210519-3,010619-2,210619-1,220619-2
23.	Phonic Wheel	FAV	FT/KEP/100	FT/KEP/13

Signature of SSE/Bogie/QC





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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Distribution valve	M/S- KBI, FARIDABAD	3748 37/19
3.	Pull box	M/S- KBI, FARIDABAD	2019 J 8930
4.	FIBA	M/S- KBI, FARIDABAD	
5.	Foot Step		PP-7706/29
6.	Decoupling arrangement	M/S- SHATABDHI SAFETY GLASS, VADODARA	NPP-7610/29
7.	Floor board	M/S- KOHINOOR KR, MUMBAI	
8.	PVC	M/s- T.W.P.L. INDUS. MUMBAI	
9.	UIC Vestibule (PPE)	M/S- SHATABDHI SAFETY GLASS, VADODARA	
10.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
11.	Gangway bridge mounting (PPE)	M/S-KIRAN RUBBER PRODUCT PUNE	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/s- MAHAVEER METAL WORKS, KXH	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/S- SHATABDHI SAFETY GLASS, VADODARA	
17.	Door way /gang way ceiling	M/S- SHATABDHI SAFETY GLASS, VADODARA	
18.	Supply Air Duct	M/S- SHATABDHI SAFETY GLASS, VADODARA	
19.	Automatic fire & smoke detection system	M/S- SHATABDHI SAFETY GLASS, VADODARA	
20.	Odour control system	M/s-SANROK ENTERPRISES	
21.	Partition panel	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
22.	Partition pillar	M/S- SHATABDHI SAFETY GLASS, VADODARA	
23.	Side Wall panel	M/S- SHATABDHI SAFETY GLASS, VADODARA	
24.	AC Trough	M/S- SHATABDHI SAFETY GLASS, VADODARA	
25.	Body Side Doors 1,2,4	M/S-BHARAT FIBER LTD LUCKNOW	
26.	Body Side Doors 3	M/s- JVR INDS, LUDHIYANA	
27.	RMPU	M/S-GOLD PLUS CHANDIGARH	
28.	Compartment Door (PPE)	M/S-INTECH DEHRADOON	
29.	Compartment Door (NPPE)	M/S- SHATABDHI SAFETY GLASS, VADODARA	
30.	Vestibule Door(PPE)	M/S- SHATABDHI SAFETY GLASS, VADODARA	
31.	Vestibule Door(NPPE)	M/S- SHATABDHI SAFETY GLASS, VADODARA	
32.	Bio Tank pressurized flushing	M/S- SHATABDHI SAFETY GLASS, VADODARA	
33.	Auxiliary Water Tank	M/s- OMAX AUTO LTD. GURGAON	
34.	Under Slung Water Tank (2X685L)	M/s-AMIT ENG. MOHALI	
35.	Health Faucet	M/S AMIT ENGG, MOHALI	
36.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
37.	Bib cock	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
38.	Lavatory Modules	M/s- JAQUAR PVT.LTD.ALWAR	
39.	Shower room (lav-1)	M/S- SHATABDHI SAFETY GLASS, VADODARA	
40.	Lavatory Doors	M/S- SHATABDHI SAFETY GLASS, VADODARA	
41.	Auto janitor	M/S- SHATABDHI SAFETY GLASS, VADODARA	
42.	Fire Extinguisher	M/S- SHATABDHI SAFETY GLASS, VADODARA	
43.	Seat & Berth	M/S-SAFE PRO GUARD MUMBAI	
44.	Light Luggage Rack	M/S- SHATABDHI SAFETY GLASS, VADODARA	PPE- 950 ,NPPE-983
45.	Snack table	M/S- SHATABDHI SAFETY GLASS, VADODARA	
46.	RFID	M/s-TECH SOLUTION GURGAON	129, 130

SSE/QC/MCF/RBL

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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/OC/MCF/RBL वारंअनु० अभियंता गुणवत्ता विभाग रेडि०का०, रायबरेली (लालगंज)	SME/AME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



आधुनिक रेल डिब्बा कारखाना, रायबरेली



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

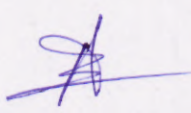
DATE: 28.08.2019

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

ELECTRICAL TEST CERTIFICATE FOR LHB FIRST AC COACH			
TYPE COACH	LWZFAC	SHELL/COACH NO	197142/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of tests		Remarks
1.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
1.1	Fresh Air	19.80 Cub mtr/min	OK
1.2	Return Air	78.67 Cub mtr/min	OK
1.3	Exhaust Air	8.36 Cub mtr/min	OK
1.4	Conditioned Air	160.60 Cub mtr/min	OK
2.0	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 : 20.6 °C NPP Side : 22.4 °C		OK
3.0	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 FIRST AC COACH
ELECTRICAL TEST CERTIFICATE FOR LHB FIRST AC COACH

Sr no	Description of test	Remarks
4.0	HUMIDITY CONTROL	OK
5.0	PUMP EQUIPMENTS	OK
6.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
7.0	WORKING OF COMPOSITE PANTRY	OK
8.0	WORKING OF BERTH READING LIGHTS	OK
9.0	WORKING OF COMPARTMENT LIGHT	OK
10.0	WORKING OF BRACKET FAN	
11.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WORKING OF ANNUNCIATOR SYSTEM	
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	SAFETIES :	
18.1	OHP :	OK
18.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
18.3	LP/HP GAUGE	OK
19.0	HYGROSTAT	OK
20.0	CONTROL CIRCUIT	OK
21.0	POWER CIRCUIT	OK
22.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

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) : 19J1412 Sr no of RMPU 2(PP side): 19J1422 Sr no of Microprocessor. : 19.08.2671	As per rdso/pe/spes/ac/0061/rev-1/2005	01 Set
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-914	As per spec no. RDSO/PE/SPEC/AC/0184-2015(REV.0)	01 no.
03.	Pump equipment with PLC controller & pump box Make: DR AUTO PA Sr.no: 2019/08/004 Sr no.1: 4817 Sr no.2 : 4841 Sr.no.CPA: 2019/09/111-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01 Set
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummt/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02 no.
05.	Provision of Passenger area Light(Cabin/Corridor) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	12 no.
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	--
07.	Provision of Cabin/Corridor Light with Night light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	12no.
08.	Mounting of Cabin/Corridor Light with Night light	As per drg no. LW 76091.	--
09.	Provision & mounting of Doorway/ Gangway light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	08 no.
10.	Provision & Mounting of PACIL Assly. Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02 no.

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ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Provision & Mounting of WC light. Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097. -	02 no.
12.	Provision & Mounting of Lavatory Light. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092. -	04 no.
13.	Provision of Emergency Lighting system Make: VGS	As per RDSO/PE/Spec/AC/0180-2016(Rev-0),Type-2 or Latest.	04 no.
14.	PA system for LHB coaches Make: AHUJA	EDTS 173,Rev- a Am-1,2&3	01 Set
15.	Provision of terminal strip complete Make: WAGO	As per EDML-033 Rev – C,Drg no. LW76054	01 Set
16.	Diffuser complete w/o item 1 & 2.	LW 76012,Alt-a	--
17.	Plug & socket distribution board 20A,240 V AC Make: SSK	As per Drg. No. LA 72200,Alt-A or Latest.	01 no.
18.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 2 no. ON_ OFF switches. Make: SSK	As per spec EDML-064,REV-B,Am-1 Item 11.Drg. no. LW74202 alt 'c'	04 no.
19.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. ON-OFF switches and 1 no. 5-pin socket 6A,250 V AC 1 no. 1.0 Amp glass fuse. Make: SSK	As per spec EDML-064,REV-B,Am-1 alt 'c' Item 16,Drg. No. LW74202	12 no.
20.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 1 no. push bell & 2 no. ON_ OFF switches and 1 no. 5-pin socket 6A,250V AC with 1.0 Amp glass fuse. Make: SSK	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-9,Drg. No. LW74202	04 no.

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Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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DATE: 28.08.2019

ROLLING STOCK CERTIFICATE OF LHB FIRST AC COACH

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Sr no	Description	Drg/Spec no.	Quantity per Coach
21.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plat & 2 no. ON_ OFF switches 6A,250 V AC at corridor area. Make: SSK	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-1,Drg. No. LW74202	04 no.
22.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 3 no. ON-OFF switches and 1 no. 5-pin socket 6A,250 V AC 1 no. 1.0 Amp glass fuse at cabin/Attendant area. Make: SSK	As per spec EDML-064,REV-B,Am-1 alt 'c' Item-5,Drg. No. LW74202	05 no.
23.	Bracket Fan 225 MM Sweep wall bracket type,110 V AC and crash worthy features as per RCF AM-1(Type-IV) Make: PARAS	IS:6680-92 with RDSO Annexure-H(Dec-2005) or latest	01 no.
24.	Provision & Mounting of reading light for upper berth. Make : DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1 & Drg no LW 76094 -	12 no.
25.	Provision & Mounting of reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3 & Drg no LW 76095 -	05 no.
26.	Provision & Mounting of reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4 & Drg no LW 76096 -	07 no.
27.	Provision of Cable Jacket ,Size 06Nominal width 25mm ,Length -1000mm	As per spec no. EDTS 0138, Item 09	---
28.	Annunciator System complete . Make: V.S INSTRUMENT	As per EDTS 117,Rev-A	01 set
29.	Provision of Inter Vehicle coupler Make: PRIME ELECT.	As per RDSO PE SPEC-0177-2013 REV-0	01 set
30.	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 : 08/19	EDTS 129,Rev nil	01 set

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Sr no	Description	Drg/Spec no.	Quantity per Coach
31.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01 no.
32.	Battery fuse box +ve Make : RADIANT	LW 71001,Alt-F	01 no.
33.	Battery fuse box -ve Make : RADIANT	LW 71002,Alt-F	01 no.
34.	Regulated battery charger Make :NIL Sr no :NIL	RDSO/PE/SPEC/AC/018 3 (REV -0)	01 no.
35.	Emergency battery charger Make : BHASIN Sr no: 08198975	EDTS 163,Rev `c` corg.- 2&3	01 no.
36.	Provision of 5 KVA TFR Make: VIMAL SL.no. VTC 3089 LHB-981	As Per EDTS-366,REV- NIL & CC-71510	01 no.
37.	Provision of capacitor Bank Make: KONTACT SL.no. KT-886	As per EDML-130 Rev- 1,Corr-1	01 no.
38.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-1619	As per rdso/pe/spec/ac/0080/rev -0 (2007)/Am-1&2/Corr. 1,2&3	01 no.
39.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
40.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	01 set
41.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0119242198	M/s : KNORR	01 set
42.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : N/F	As per spec no EDTS 139, Rev- E ,Sec II.	01 set

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

गुणवत्ता नियंत्रण
आ0रे0डि0का0 / लालगंज / रायबरेली
S.S.E./Elect-QC/M.C.F./LJ/RBL

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