



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/2019-20/1802

RLY	NWR	COACH NO	202088/C	DATE OF DISPATCH	12-Mar-20
Type	LWACCN	Shell No.	93501	DISPATCH TO	Sr.DME/JP
				FUR.NO.	L3T-1380

1. Railway Board's Order No. : 2019/M(C)142/2, DATE-18.12.19

2. Tare Weight of Coach : 45.6 Tonnes

3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. Special feature:

A- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18

B-Venturi arrangement in lavatory -M/S-ARHAM HI TECH MUMBAI

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	NPP/PP 1105/1098

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	PP END M/S-SFPL	6
		NPP END M/S-AMIT ENGG.	77
		Complete MCFRBL-V4U TECHIE	93501
2	Lav. side wall	M/S-MIDAS GUJRAT LAV.1	LAV.2
		M/S-MIDAS GUJRAT LAV.3	LAV.4
3	Side wall	LH SIDE MCFRBL-V4U LKO	335
		RH SIDE MCFRBL-V4U LKO	335
4	End wall	PP END MCFRBL	
		NPP END MCFRBL	
5	Roof	M/S-ECBT	89
6	Centre Buffer Coupler	M/S-FRONTIER	NPP/PP 83P2/152P1

7. AIR BRAKE 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 .	6 - 10 sec.	07 sec.
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²
		All Brake are applied	OK	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	VIBGYOR	M/S-VIBGYOR	89/88	16-02-2020
2	Insulation			Satisfactory		

(Signature)
SSE/QC/MCF/RBL
वरिष्ठ अनुष्ठानिक अधिकारी
गुणवत्ता विभाग
रेडिओका, 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/2019-20/1802

RLY	N	W	R	Coach No.	2	0	2	0	8	8	/	C	-	DATE OF DISPATCH	1	2	0	3	2	0	2	0
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DISPATCH	Sr.DME/JP	Type	L	W	A	C	C	N	Shell No.	9	3	5	0	1	FUR .NO	L3T-1380
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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	193377				193378			
Bogie Type	FIAT				FIAT			
Frame no.	VS-109				VS-128			
Bolster no.	AMIT-59				AMIT-284			
Axle No	19 T - 4236 RWF		19 T - 4247 RWF		20 T - 8827 RWF		19 T - 4243 RWF	
Wheel Dia	917.598	917.693	917.575	916.668	917.562	916.659	917.566	917.673
Wheel Disc No	DP-19-267 23446	DP-19-267 23379	DP-19-267 23394	DP-19-267 23387	DP-19-267 23457	DP-19-267 23390	DP-19-267 23463	DP-19-267 23409
R.B. Nos.	03-18 00052	11-19 00364	11-19 00332	11-19 00189	11-19 00296	11-19 00256	11-19 00372	11-19 00354
CT R B Make	SKF		SKF		SKF		SKF	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie PP side		Bogie NPP side	
	Secondary 1	Secondary 2	Secondary 1	Secondary 2
Make & Nos.	AVADH RAIL INFRA LTD. 02-19 1401	AVADH RAIL INFRA LTD. 02-19 1301	AVADH RAIL INFRA LTD. 02-19 1319	AVADH RAIL INFRA LTD. 02-19 1358

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			PP SIDE	NPP SIDE
1.	Yaw Damper	IAI	267040,266994	266988,267114
2.	Primary outer Spring	CMFSK	07-19 7411-(36,68,16,56)	03-19 7411-(88,87,79,84)
3.	Primary Inner Spring	CMSTL	02-19-F04-N96-04A-(2582,3028,3936,2684)	02-19-F04-N96-04A-(2598,3025,2585,3933)
4.	Primary Damper	IAI	05-19 (255338,255313,255299,255266)	08-19 (267648,267929,267917,267883)
5.	Secondary Damper	IAI	08-19 (268306,268355)	09-19-(274407,274473)
6.	Lateral Damper	IAI	08-19 268544	08-19 268547
7.	Brake Cylinder	KBI	(C0810,D9612,B9611,C0807)-K29	C-(0796,9571,0948,1943)-K29
8.	Brake Caliper	KBI	B-(7507,7530,7532,7506)-29	B-(7508,7531,8707,8578)-29
9.	Brake Disc	KBI	24206688-(0042,0043)-44-19, 24206690-(0066,0065)-45-19	24206689-(0029,0028)-44-19, 24206688-(0045,0044)-44-19
10.	Ball joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ/JI		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	ESCORT	1910,1910	1908,1908
17.	Check Valve	ESCORT	1910	1908
18.	Anti roll bar Make	EMSON/RK		
19.	Roll Link make	SARITA-GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	RVE	200819-1,151019-1,101819-1,200819-1	101819-1,101019-1,180819-1,110819-1
22.	Control Arm Lower	RVE	160819-1,160819-1,170819-1,170819-1	161819-1,101119-1,-,110819-1
23.	Phonic Wheel	KBI	K 09-19	K 09-19

Signature of SSE/Bogie/QC



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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1802

RLY	NWR	COACH NO	202088/C		DATE OF DISPATCH	12-Mar-20
Type	LWACCN	Shell No.	93501	DISPATCH TO	Sr.DME/JP	FUR.NO. L3T-1380

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAV.	A20175B
2	Distribution valve	M/S-FAV.	20015664B
3	Pull box	M/S-KBI	
4	FIBA	M/S-KBI	7521/29,7506/29
5	Foot Step	M/S-FABRICON PVT LTD KOLKATA	
6	Decoupling arrangement	M/S-PULSAR ENGG KOLKATA	
7	Floor board	M/S -SHRI RAM PANEL	
8	PVC	M/S -RESPONSIVE MUMBAI	
9	UIC Vestibule (PPE)	M/S-KRP PUNE	
10	UIC Vestibule (NPPE)	M/S-KRP PUNE	
11	Gangway bridge mounting (PPE)	M/s-MMW KXH	
12	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
13	Body Side Window	M/s- SHATABDI SAFTEY VADODARA	
14	Emergency Window	M/s- SHATABDI SAFTEY VADODARA	
15	Lavatory/hopper Window	M/s- AXYS SOLUTION DELHI	
16	Roof Ceiling	M/S-MSL MOHALI	
17	Door way /gang way ceiling	M/s- P.D.STEEL	
18	Supply Air Duct	M/s- HANSPAL TRADERS KXH	
19	Side Wall panel	M/S-HF VADODARA	
20	Partition panel	M/S-HONEYCOMB INTERNATIONAL BANGLORE	
21	Partition pillar	M/S- JR INDS JUC	
22	AC Trough	M/S-MSL MOHALI	
23	Body Side Doors 2,4	M/S-JVR LDH	
	Body Side Doors 1,3	M/S-JBM FARIDABAD	
24	Compartment Door (PPE)	M/S-HANSPAL COACH KXH	
25	Compartment Door (NPPE)	M/S-HANSPAL COACH KXH	
26	Vestibule Door(PPE)	M/S-JBM FARIDABAD	
27	Vestibule Door(NPPE)	M/S-JBM FARIDABAD	
28	RMPU	M/S-INTEC ENGG.	
29	Bio Tank	M/S-OMAX AUTOS	
30	Pressurized flushing (ele. Pneu.)	M/S-IMI	
31	Auxiliary Water Tank	M/S-AMIT ENGG. MOHALI	
32	Under Slung Water Tank (2X685L)	M/S-OASIS	
33	Under Slung Water Tank (1x450 L)	M/S-AMIT ENGG. MOHALI	
34	Health Faucet	M/S-ARHAM HI TECH MUMBAI	
35	Lotah Filler Tap	M/S-ARHAM HI TECH MUMBAI	
36	Bib cock	M/S-JAQUAR ALWAR	
37	Lavatory Modules	M/S-ARHAM HI TECH MUMBAI	
38	Lavatory Doors	M/S-ARHAM HI TECH MUMBAI	
39	Fire Extinguisher	M/S-SAFE PRO	3384/3382
40	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENT. FARIDBAD	
41	Seat & Berth	M/S-OVPL MUMBAI	
42	Light Luggage Rack	M/S-RAIL FAB KXH	
43	Snack Table	M/S-DLJM NOIDA	
44	Venturi grill	M/S-ARHAM HI TECH MUMBAI	
45	RFID	NIL	

SSE/QC/MCF/RBL

वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग

रेडिओका, रायबरेली (लालगंज)



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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Type	LWACCN	Shell No.	93501	DISPATCH TO	Sr.DME/JP
				FUR.NO.	L3T-1380

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 30months 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 qualityrcfrbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from 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/AME/QC/MCF/RBL	Dy.CQM/MCF/RBL

वरिष्ठ जनरल अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)

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

Dy. Chief Quality Engineer
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB 3T COACH.					
TYPE COACH		LWACCN		SHELL/COACH NO	
RAILWAY		NWR		202088/C	
		ELECT. FIT DATE		04-03-2020	
				MCF EUR. NO.	
				3T-1380	
Sr. no.	Description of tests				Remarks
1.0	REFERENCE SPECIFICATION : L 446				
1.1	AIR CONDITIONING TEST : ELPS/TP/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	20.80 Cub mtr/min		OK	
3.2	Return Air	76.88 Cub mtr/min		OK	
3.3	Exhaust Air	5.93 Cub mtr/min		OK	
3.4	Conditioned Air	205.94 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				----
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





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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB 3T COACH.

ELECTRICAL TEST CERTIFICATE FOR LHB 3T COACH.		
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 BERTH READING LIGHTS	OK
10.0	WORKING OF COMPARTMENT LIGHTS	OK
11.0	WORKING OF MOBILE CHARGING SOCKETS	OK
12.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF 5 KVA TRANSFORMER	OK
16.0	WORKING OF REGULATED BATTERY CHARGER	OK
17.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
18.0	WORKING OF COMPOSITE PANTRY(ONLY FOR RAJDHANI COACH)	N/F
19.0	SAFETY :	---
19.1	OHP :	OK
19.1	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
19.2	LP/HP GAUGE	OK
19.3	HYGROSTAT	OK
19.4	CONTROL CIRCUIT	OK
19.5	POWER CIRCUIT	OK
20.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU 1 (NPP side) : 19K1508 Sr no of RMPU 2(PP side): 19K1516 Sr no of Microprocessor. : 19.10.2905	As per RDSO/PE/SPES/AC/0061/REV -1/2005	01 Set
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-19-11-0069	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: 20/01/0076 Sr no.1: 19110444 Sr no.2 : 19110599 Sr.no.CPA: 2019/01/0026-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2. As per Spec. EDTS186, & drg no. CC71328 & LW70020 for P/CNTR.	01 Set
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cu.mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : EYYANI	EDTS331, TYPE-1 CORR.- 1&2	02 no.
05.	Provision of Passenger area LED Light(Cabin) Make: RT VISION	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-L	09 no.
06.	Mounting of Passenger area light(Cabin/corridor)	As per drg no. LW 76090.	OK
07.	Provision of Cabin/Corridor Light with Night light. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-M	09 no.
08.	Mounting of Cabin/Corridor Light with Night light	As per drg no. LW 76091.	OK
09.	Provision & mounting of Doorway/ Gangway light. Make: WAVES	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-N & Drg no. LW 76099	07 no.
10.	Provision & Mounting of PACIL Assly. Make: WAVES	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-I Drg no. LW 76098.	02 no.
11.	Provision & Mounting of WC light. Make: DHINGRA	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: K.LITE	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: A PAUL	As per RDSO/PE/Spec/AC/0180- 2016(Rev-0),Type-2 or Latest.	04 no.

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ROLLING STOCK CERTIFICATE OF LHB 3T COACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
14.	PA system for LHB coaches Make: AHUJA	EDTS 173, Rev- a Am-1,2&3	01 Set
15.	Provision of terminal strip complete	EDML 034, Rev-C, DRG NO. LW76054	01 Set
16.	Diffuser complete w/o item 1& 2.	LW 76012, Alt-a	OK
17.	Provision of switch plate assembly complete with polycarbonate cover frame and powder coated steel plate & 2 no. ON_ OFF switches 6A, 250 V AC 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-4 ,Drg. No. LW74202	09 no.
18.	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	54 no.
19.	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. Make : SSK	As per spec EDML-064, REV-B, Am-1 alt 'c' Item-5, Drg. No. LW74202	09 no.
20.	Provision & Mounting of reading light for upper berth Make : DEVINTEC	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F2 & Drg no LW 76094	27 no.
21.	Provision & Mounting of reading light for transverse berth (RHS) Make: DEVINTEC	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F3 & Drg no. LW 76095	18 no.
22.	Provision & Mounting of reading light for berth transverse (LHS) Make: WAVES	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F4 & Drg no. LW 76096	18 no.
23.	Provision & Mounting of reading light for berth Longitudinal. Make: AKG	As per RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-F1 & Drg no LW 76096	09 no.
24.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3 ph, 50 Hz). Make: 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	As per Spec. no. RDSO/PE/SPEC/AC/0177(R ev.-0)-2013 with annexure-A, B.	01 set
25.	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 : 11/19	EDTS 129, Rev nil	01 set

Senior Section Engineer
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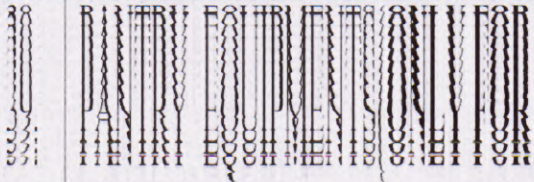

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ROLLING STOCK CERTIFICATE OF LHB 3TCOACH.

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
26.	Provision of Cable Jacket, Size 75, 50, 20 mtr.	As per spec no. EDTS 0138, Item 5,8,11	OK
27.	Provision of cable binder.	As per Drg. No. cc76129, Item 2,4.	OK
28.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005, Alt C	01 no.
29.	Battery fuse box +ve Make: INDORAIL	LW 71001, Alt-H	01 no.
30.	Battery fuse box -ve Make: AECO	LW 71002, Alt-I	01 no.
31.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger. Make: ELECTRONIC EQUIPMENT COMPANY Sr. no.: 12190079	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.-1)	01 no.
32.	Provision of 5 KVA TFR Make: WAVES SL.no.: WLDT5L 19640	As Per EDTS-366, REV-NIL & CC-71510	01 no.
33.	Provision of capacitor Bank Make: RICHMOND ENTERPRISES SL.no.: 344012	As per EDML-130 Rev-1, Corr-1	01 no.
34.	60KVA transformer Make: VIMAL Sr no : VTC-R-3089-LHB-1676	As per spec no. RDSO/PE/SPEC/AC/0080-2007 (REV-1)	01 no.
35.	Feeder junction boxes. Make: MV ELECTRO SYSTEMS	EDTS-328 REV-C	01 set
36.	Wheel set earthing equipment. Make: CHANDA & CHANDA	EDTS101, REV-C, AM-1	01 set
37.	Wheel Slide Protection System (WSP) Make: FAIVELEY Sr. no : PI/1264	As per MDTS 077, Rev.-2 M/s "FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 set
38.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: JAI BALAJI	Cat no. 1948036/UIV4125-6 with RCF annexure-A - 02 nos	02
39.	 RAJDHANI COACH : Hot Case; Bottle cooler cum deep freezer Make: N/F	 E Sec II.	N/F
40.	Razor socket for WC 110/240V	EDML 047	04