

		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली				DOC NO.: MCF/RBL/QMF 8002 REV NO: 02 DATE: 28.05.21				
ROLLING STOCK CERTIFICATE(AC COACH) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-2023 482/8783										
RLY	NFR	COACH NO	223871/C				DATE OF DISPATCH	28-Sep-22		
Type	LWLRRM	Shell No.	PC-22010	DISPATCH TO	Sr.DME/C&W/GHY			FUR.NO.	LPC-357	
1	Railway Board's Order No. : 2022/M (C)/142/2,Dt- 28.03.2022									
2	Tare Weight & Carrying Capacity of Coach :									
S.N	COACH TYPE	LWACCN	LWACCW	LWLRRM	LWCBAC	LFCWAC	LWSCZAC	LWFAC	LWFCZAC	
I	Tare Weight	45.6	44.5	53.2	39	42.5	40.28		39	
II	Seating	72	52	NIL	15	10+28	78	24	56	
III	Sleeping	72	52	NIL	15	10+28	NIL	24	NIL	
IV	Luggage	NIL	NIL	3.9	NIL	NIL	NIL	NIL	NIL	
3	Special feature:									
I	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									
4	Smart feature: NIL									
5	SHELL LEADING DIMENSIONS:									
S.N	DESCRIPTION						DIMENSION (MM)			
I	Maximum Length over body						23540			
II	Maximum Width over body						3240			
III	Maximum Height from Rail Level			LWACCN , LWACCW		LWLRRM,LWCBAC,LFCWAC,LWSCZAC,LWFAC,LWFCZAC				
				4250		4039				
IV	CBC height/Buffer Height from Rail level			1105 +0/-10			NPP/PP		1096/1099	
6	TRACEABILITY OF SHELL ITEMS:									
S.N	ITEM			MAKE/SUPPLIER			SERIAL NO			
I	Under frame	Front	PP END	M/S-RAIL TECH			---			
		Part	NPP END	M/S-RAIL TECH			---			
		Complete	M/S-RAIL TECH			---				
II	Lav. side wall			M/S-SIPL/HANSAPL KXH			LAV.1	-----	LAV.2	-----
				M/S-KIPL/MCF			LAV.3	-----	LAV.4	-----
III	Side wall	LH SIDE	MCF/RBL-CONT.V4U LKO			2				
		RH SIDE	MCF/RBL-CONT.V4U LKO			2				
IV	End wall	PP END	M/S-RAIL TECH			-----				
		NPP END	M/S-JVR			-----				
V	Roof			M/S-AIRFLOW			9			
VI	Centre Buffer Coupler			M/S-FRONTIER			NPP/PP		12P1/35P2	
VII	Buffer			M/S-RANEKA INDUSTRIES			NPP/PP		PC-22010	
7	AIR BRAKE TEST REPORT:									
S.N	ITEM		DESCRIPTION				SPEC. VALUE		OBSERVED	
I	Full brake application		Reduce pressure of BP from 5.0 to 3.4 kg/cm².				6 – 10 sec.		8 Sec	
			Max. pressure in BC				3.0 ±0.15 kg/cm².		3.0 kg/cm²	
			All Brake are applied				OK		OK	
II	Insensitivity		Exhaust BP @ 0.3 kg/cm²/min.				No brake application		OK	
III	Sensitivity		Exhaust BP @ 0.1 kg/cm²/Sec, after 06 Sec.				Brake must apply		OK	
IV	Handbrake(Parking brake)for generator car		1.Apply hand brake				1.Hand Bk. Indicator should be red		OK	
			2.Release hand brake				2. Hand Bk. indicator should be green		OK	
8	FIRE TESTING:									
S.N	DESCRIPTION			SPEC. VALUE				OBSERVED		
I	Smoke detection			A-controller should display smoke in zone 1,2				B-strobe light & hooter should activate		OK
II	Heat detection			A-controller should display smoke/heat in zone 1,2				B- strobe light & hooter should activate		OK
9	PAINTING DETAILS:									
S.N	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR (SUPPLY & APPLY)			AVERAGE GLOSS VALUE SIDE WALL/END WALL		DATE OF COMPLETION	
I	Paint	P.U	M/S-VIBGYOR	M/S-VIBGYOR			92/90		26-Jun-22	
II	Insulation- Satisfactory		ANTIGRAFFITE COATING- NIL			WET ON WET-		NIL		
10	COACH FURNISH DETAILS :									
S.N	ACTIVITIES		FIRM		TURNKEY/WORK CONTRACT/SUPPLY&APPLY					
I	Coach Furnishing		M/S-ACME INDIA NDLS		WORK CONTRACT					
II	Air Brake		M/S- ACME		WORK CONTRACT					
III	Bio toilet & flushing		M/S-VEDANSH ENT.		SUPPLY& APPLY					
IV	Fire detection		M/S-JK EXIM (FIRE & SUPPRESSI		SUPPLY&APPLY					
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ROLLING STOCK CERTIFICATE(AC COACH)					
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-2023 482/8783					
RLY	NFR	COACH NO	223871/C	DATE OF DISPATCH	
Type	LWLRRM	Shell No.	PC-22010	DISPATCH TO	Sr.DME/C&W/GHY
11	MODIFICATION (IF ANY) : NIL				28-Sep-22
12	DEVIATION (IF ANY) : NIL				FUR.NO.
13	ITEM FITTED ON THE COACH ON TRIAL : NIL				LPC-357
S.N	ITEM PARTICULARS		PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL
i					
14.A TRACEABILITY OF FURNISHING ITEMS:(common items for all coach)					
S.N	ITEM			MAKE/SUPPLIER	SERIAL NO(NPP/PP)
I	Air Brake Module			M/S-FAIVELEY	2205013B
II	Distribution valve			M/S-FAIVELEY	22055570B
III	Pull box			N/A	
IV	FIBA			NIL	NIL
V	Foot Step			M/S-SHANKAR METAL WORK CNB.	
VI	Decoupling arrangement			M/S-SUNCREST IND. KOLKATA	
VII	Floor board			M/S-TWPL MUMBAI	
VIII	PVC			M/S-PREMIER POLYFILM GZB	
IX	UIC Vestibule (PPE)			N/A	
X	UIC Vestibule (NPPE)			M/S-KRP IND. PUNE	
XI	Gangway bridge mounting (PPE)			N/A	
XII	Gangway bridge mounting (NPPE)			M/s- SHASHWAT STEEL MUMBAI	
XIII	Body Side Window			M/S-SHATABDI SAFETY GLASS VADODARA	
XIV	Emergency Window			N/A	
XV	Lavatory/hopper Window			M/S- AXSYS SOLUTION SIRMOUR (HP)	
XVI	Roof Ceiling			M/S-RAIL EXEPERT,JUC/ P.D.STEEL PUNCHKULA	
XVII	Door way /gang way ceiling			N/A	
XVIII	Supply Air Duct			N/A	
XIX	Partition panel			M/S-WOUNDER LAMINATE (HPL SHEET)	
XX	Partition pillar			M/S-GANGA SINGH, LDH (SET OF FRAME)	
XXI	Side Wall panel			M/S-WONDER LAMINATION KOLKATA(HPL SHEET)	
XXII	AC Trough			M/S-JBMR ENT GZB	
XXIII	Body Side Doors			M/s-POOJA SALES CORPORATION	
XXIV	Compartment Door (PPE)			N/A	
XXV	Compartment Door (NPPE)			N/A	
XXVI	Vestibule Door(PPE)			N/A	
XXVII	Vestibule Door(NPPE)			M/s-KALSI LDH.	
XXVIII	RMPU			M/S-DAULATRAM BHOPAL	
XXIX	Bio Tank (01 No.Lav.)			M/s-CEMCON CASTING	
XXX	Pressurized flushing (ele. Pneu.)			NIL	
XXXI	Auxiliary Water Tank			M/S-SHIVALIK FAST. MOHALI	
XXXII	Under Slung Water Tank (2X685L)			NA	
XXXIII	Under Slung Water Tank (1x450 L)			M/S-OASIS	
XXXIV	Health Faucet			NA	
XXXV	Lotah Filler Tap			NA	
XXXVI	Bib cock			M/S-AGMECO LTD UK	
XXXVII	Lavatory Modules			M/S-HFGW VADODARA	
XXXVIII	Lavatory Doors			M/S-KALSI IND LDH	
XXXIX	Fire Extinguisher			M/S-AMTEX	1.71142E+14
XL	Seat & Berth			M/S-OVPL MUMBAI	
XLI	Folding Table			M/S-RAIL EXPERT JUC	
XLII	Light Luggage Rack			N/A	
XLIII	Venturi grill			NIL	
XLIV	Auto janitor			N/A	
XLV	Automatic smoke & heat Detection with alarm System			M/S-JK EXIM (FIRE & SUPPRESSION SYSTEM)	
14.B TRACEABILITY OF FURNISHING ITEMS:(items for variant wise)					
I	Hand brake equipment			M/S-VANI PRECISION	
II	Al.Chequer plate/sheet			M/S-GAURAV NDLS	
III	Generator room ceiling			M/S-RAIL TECH KXH	
IV	Hatch door			M/S-RAIL TECH KXH	
V	Luggage sliding door			M/S-SARSWATI	
VI	Crew/gen.guard room door			M/s-JBM INDS FARIDABAD	
VII	Luggage Rack			M/S-J.R INDS JUC	
VIII	Fuel tank (2x1540L)			M/S-SHIVALIK FAST. MOHALI	
IX	Pocket wall			N/A	
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	MODERN COACH FACTORY, RAEBARELI आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QMF 8002
		REV NO.: 02
		DATE: 28.05.2021

ROLLING STOCK CERTIFICATE (AC COACH)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2022-23/ 482/8783

RLY	N	F	R	Coach No.	2	2	3	8	7	1	/	C	-	DATE OF DISPATCH	2	8	0	9	2	0	2	2
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DISPATCH	Sr.DME/C&W/ GHY	Type	L	W	L	R	R	M	Shell No.-	PC	2	2	0	1	0	FUR .NO	LPC -357
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15. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	220560				220559			
Bogie Type	FIAT				FIAT			
Frame no.	SIMPLEX – 518				KANSAL ENGG. -63			
Bolster no.	MCF/RBL – 3614				MCF/RBL – 3270			
Axle No	22 M - 7404 RWF		22 M - 8340 RWF		22 M - 8019 RWF		22 M - 7394 RWF	
Wheel Dia	917.62	917.52	917.59	917.53	917.50	917.54	917.51	917.56
Wheel Disc No	TZ 08-18 25170-8NG8	TZ 05-18 25616-8PP8	TZ 06-18 30653-8QN0	TZ 04-18 12426-8MN4	TZ 05-18 16369-8MP8	TZ 05-18 16368-8MP8	TZ 06-18 26718-8MQ5	TZ 04-18 15173-8NG8
R.B. Nos.	01-22 403891	11-21 433780	01-22 500361	01-22 404252	01-22 403090	01-22 403363	01-22 502191	01-22 403152
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

16. 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.	CMGBD 11-21 F16-884-19	CMRSK 12-18- F17-R43-170- 210	CMGBD 11-21 F16-884-41	CMRSK 12-18- F17-R42-170-37	CMAFJ 08-19 7146-93	CMGBD 06-20 F15-680-107	CMAFJ 08-19 7146-93	CMGBD 06-20 F15-680-158
Compressed Ht. at Tested Load	515	467	514	468	512	468	512	468
Alignment deviation (mm)	20	22	17	22	5	35	5	33

17. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	AB-(61174,61142)	AB-(61062,61040)
2.	Primary outer Spring	CMAFJ	01-22-F05-771-(693,721,425,838)	01-22-F05-771-(837,697,850,695)
3.	Primary Inner Spring	CMAFJ	01-22-F04-574-(821,876,886,875)	01-22-F04-574-(752,881,879,823)
4.	Primary Damper	IAI	05-21-AB-(22404,22500,24129,23735)	05-21-AB-(24261,23865,21950,22271)
5.	Secondary Damper	IAI	09-21-(344750,344753)	09-21-(337229,344785)
6.	Lateral Damper	KONI	03-19-02369	03-19-02144
7.	Brake Cylinder	FAV	22-04-(006,005),00-03-(163,161)	22-04-(003,020,024,020)
8.	Brake Caliper	FAV	22-05-(147,146,158,149)-B	22-05-(160,145,157,159)-B
9.	Brake Disc	FAV	07-21-(5621,5622,5624,5623)-D133561-300-1	04-21-(4017,4013,4011,4016)-D133561-300-1
10.	Ball Joint Control Arm	PPI		
11.	Lateral Bump Stop	PPI		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	MK		
14.	Ball joint traction lever	GMT/BONY		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	GMT		
18.	Anti roll bar Make	SF(SARITA)		
19.	Roll Link make	AV+GMT		
20.	Fork make	SF(SARITA)		
21.	Control Arm Upper	SF(SARITA)	423,491,1905,526	1782,518,891,1691
22.	Control Arm Lower	SF(SARITA)	169,59,46,28	42,29,49,63
23.	Phonic Wheel	FAV	FT-UE-04-22	FT-UE-04-22

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Vibgyor Paints & Chemicals Pondicherry

Office : Sri Balaji Apartments, 87/47, Harrington Road,
Shenoy Nagar, Chennai - 600 030.
Web : www.vibgyorpaintspondicherry.com

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WARRANTY CERTIFICATE

DATE: 14/07/2022

TO,

DY.CME/FUR/PAINT
MODERN COACH FACTORY,
RAEBAREI LALGANJ-229120

SUBJECT- PERFORMANCE WARRANTY CERTIFICATES.

REF:-PO NO: 06211092100433 dated-21.02.2022

NAME OF WORK SUPPLY AND APPLY OF PU PAINT FOR LHB TYPE RAJDHANI COCHES

Dear sir

With reference to above, we do here by confirm the warranty for three years from the date of application of the delivered below mention coaches vide your above referred purchase order after application & due inspection at your end.

SL.NO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION
04.	PC 22010	LPC 357			26/06/2022

The warranty is applicable from date of dispatch against the below mention defects as per RDSO specification no M&C/PCN/100/2013.

Gloss level value of applied paint initial 85 unit (on the date of painting) and minimum 80% 70% 60% of initial gloss after one year, two years, three years respectively from the date of application.

Decolonization of paint film.

Cracking of paint film.

Peeling of paint film.

Blistering of the paint film.

Top coat gloss value-91.76



Thanking you

For vibgyor paints & chemicals Pondicherry
Authorized signatory

Factory : S-51, Phase III, Sipcot Industrial Complex, Nellikuppam, Ranipet - 632 405.
Ph : +91-4172-241478, Fax : +91-4172-242478, E-mail : vpcpdyr@yahoo.in

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	Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली	DOC NO.: MCF/RBL/QEF/8001
		REV NO: 01
		DATE:10.01.2020

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR(NOISE-LESS)

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR						
TYPE COACH		LWLRRM		SHELL/COACH NO		223871/C
RAILWAY		NFR	ELECT.FIT DATE	24-09-2022	MCF FUR. NO	LPC-357
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			14.50 Cub mtr/min		OK
3.2	Return Air			29.26 Cub mtr/min		OK
3.3	Exhaust Air			NIL Cub mtr/min		OK
3.4	Conditioned Air			61.83 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 : 22.0°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					OK

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FAN	OK
9.0	LIGHT	OK
10.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
11.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
12.0	WORKING OF 60KVA TRANSFORMERS	OK
13.0	WORKING OF RBC/EBC.	OK
14.0	SAFETY :	--
14.1	OHP	OK
14.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
14.3	LP/HP GAUGE & TRIPPING	OK
14.4	HYGROSTAT & SENSORS.	OK
14.5	CONTROL CIRCUIT	OK
14.6	POWER CIRCUIT	OK
14.7	AEL,FEL & FOL RELAY	OK
14.8	UVR/OVR	OK
15.0	HOG CONTROL CIRCUIT	OK
16.0	FEEDER CONTACTORS & HOG CONTACTORS.	OK
17.0	BUS COUPLER	OK
18.0	SAFETY LOOP	OK
19.0	SMOKE TEST	OK
20.0	REFRIGERANT USED R 407C	OK

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ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Provision of Terminal connector complete. Make: M/S INDIAN TELEPHONE & ELECT.	As per EDML-033, Rev.- D,MCF/RBL-Corr-2 or latest.	01 set
02.	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 Sr no : 1150 TO 1158 Lug date : 06/22	EDTS 129,Rev nil	01 set
03.	SET OF BATTERY FOR DA (A & B) (A)Make: CELTEK Lug date: 04/22 (B) Make: CELTEK Lug date: 06/22		02 sets
04.	Battery box for LHB coaches. Make: METAFIL	As per drg. No. 1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
05.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	02 set
06.	Switch Board Cabinet For 2 X 500 KVA DA set control. Make : INTERNATIONALS SWITCHGEAR. Sr no: PCP-MCF-22-06-0007	As per spec no. EDTS 103, Rev.- D,Amd-7,Corr-1(HOG Compliant) -01 no	01
07.	Switch Board Cabinet (Power Panel) Make : SYSTEMS AND SERVICES Sr no: SSPC/SBC0184/0722/20	As per spec no. RDSO/PE/SPEC/AC/0184- 2015(REV.0)	01
08.	Alternator "A" Make: NIDEC Sr no : LED3L922E35809	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
09.	Diesel Engine "A" Make: KIRLOSKAR Sr no : DV0.9026/2220052	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
10.	Control panel for Ventilator Fan Motor for Diesel Engine "A" Make: N/A Sr no: N/A	As per spec no. EDTS 110,Rev- nil	N/A
11.	Ventilator Fan Motor for Diesel Engine "A" Make: N/A Sr no.1: N/A Make: N/A Sr.no.2: N/A	As per spec no EDTS -102 REV-D,PART –A	N/A
12.	Control Panel for Radiator Fan Motor for Diesel Engine -A Make : BHASIN Sr no : 12195995/1	As per spec no. EDTS 104, Rev'A'	01
13.	Radiator Fan Motor for Diesel Engine –A Make: ABB Sr no : 3G3J2220438137	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01

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ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	Alternator "B" Make: NIDEC Sr no : LED3L922E 35803	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
15.	Diesel Engine "B" Make: KIRLOSKAR Sr no : DV0.9026/2220046	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
16.	Control panel for Ventilator Fan Motor for Diesel Engine "B". Make : N/A Sr no : N/A	As per spec no. EDTS 110,Rev nil,AM-1.	N/A
17.	Ventilator Fan Motor for Diesel Engine "B" Make: N/A Sr no.1: N/A Make: N/A Sr no.2: N/A	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	N/A
18.	Control Panel for Radiator Fan Motor for Diesel Engine "B" Make: BHASIN Sr no : 12195995/2	As per spec no. EDTS 114, Rev.-B	01
19.	Radiator Fan Motor for Diesel Engine "B" Make: ABB Sr no : 3G3J2220438136	As per spec no. EDTS 102, Rev'D' AM-4,PART-A	01
20.	24V DC starter Battery Charger for 500KVA DA set. Make: ELECTRIC INDUSTRIES Sr.no.: 4416-12/19	As per Spec no. 106 Rev.- Nil,AM-1 or latest.	01
21.	Starter Battery Charging Control Panel (S-40) Make : SYSTEMS & SERVICES POWER Sr no: SSPC/EDTS116/MCF/0819/12	As per spec no. EDTS 116,Rev nil	01
22.	Feeder Junction box. Make: LEC	As per EDML-021,Rev.-L.	01 set
23.	Provision of Single Inlet Radial Blower, 415V/03Ph/185W/ 1045 Cub mtr/hr discharge from S1 & S2 & Lavatory. Make: INTEG	As per EDTS 331,Corr-3,Type-II. Cat. no. 64D180BD,Rev nil.	01
24.	Battery fuse box +ve Make : ARSH	As per LW 71001,Alt-G	01
25.	Battery fuse box -ve Make : ARSH	As per LW 71002,Alt-G	01
26.	IVC dummy Socket assembly Make: PRIME ELECT.	As per Drg. No. LW71302,Alt-nil	03
27.	Provision of 60KVA TFR Make: VIMAL Sr no: 1. VTC-V-3089-LHB-2861 Make: VIMAL Sr no: A. VTC-V-3089-LHB-2788 Make: VIMAL Sr no: B. VTC-V-3089-LHB-2777	As per spec no. RDSO/PE/SPEC/AC/0080-2007,Rev.-1 with RCF/KXH Corr. 1 & 2. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03

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ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
28.	Regulated battery charger(RBC CUM EBC) Make : IC ELECTRICALS Sr no: 10/21/0110	RDSO/PE/SPEC/AC/0183 (REV '1')	01
29.	Capacitor Bank. Make : NEC Sr no : 21091983	As Per EDML 130,Type-II,Rev.-1,Cor-3	01
30.	Mounting of Pump equipment with pump box.	As per drg no. 1.10113.0.30.100.001, Alt'a'	ok
31.	Provision of Pump equipment with PLC controller & pump box Make: KIND Pump assly Sr. no: KIND/ASSLY/P-22060076 Pump 1 Sr.no.: R-22060151 Pump 2 Sr.no.: R-22060152 P/Contrl.: C 22060033-KIND	As per spec no. EDTS 186 Rev.-A,AM-2,Corr-2 or latest.	01 Set
32.	Provision & mounting of Doorway/ Gangway light. Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	20
33.	Provision of Lavatory Light Fitting assembly. Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D As per drg no. LW 76001,Alt nil.	01
34.	Provision of Cable Jacket ,Size Nominal width 25mm ,Length -1000 mm	As per drg no. EDTS 0138,Rev-nil,Corr.-1 Item 9	ok
35.	Provision of PACIL Assly. Make: AKG	As per drg no. LW 76005,Alt nil.	02
36.	Railway carriage Fan 400mm Sweep, 110V DC with crash worthy features. Make: VRUSHLESS	As per RDSO/PE/SPEC/TL/0021-2005,Rev-3,AM-1 or latest.	01
37.	Provision of Cable Binders.	As per CC76129 or as approved of OEM by MCF/RCF	ok
38.	Provision of Razor socket. Make: SSK	As per cat no EDML 047 ,Rev nil.	01
39.	Provision of Smoke Detector Unit. Make: AGNI INSTRUMENT Sr no: 1343	As per spec EDTS 087,Rev 'B',Cor-1	01 Set
40.	Provision of Tail light LED Type with flashing unit and VHF charging socket. Make: DEW COMPANY	As per EDTS 215,AM-1.Drg. No.73200 alt c	01 Set
41.	Switch plate assembly Make: EUREKA	As per EDML-045,Corr-I(pl. no. 33640180)	01

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ROLLING STOCK CERTIFICATE OF LHB POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
42.	Mounting of inter Vehicle coupler	As per drg no 1.10113.0.74.000.001 Alt nil.	ok
43.	Provision of High Capacity Inter – Vehicular Coupler Unit(ZS Coupling) (500 A,750 V,3 ph,50 Hz).Make: 1.(NPP): PRIME ELECT. 2.(PP): PRIME ELECT.	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A,B.	01 Set
44.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: JAI BALAJI	As per 1948036 /UIB4125-6.	02
45.	Provision of Wheel Set Earthing Equipment. Make NPP : PRIME ELECT. PP : PRIME ELECT.	As per spec no. EDTS 101 ,Rev.-C,AM-1,Corr-6. -	01 Set
46.	Public addressing System Make: AHUJA	EDTS -173,Rev-B or latest	01 Set
47.	Provision of Anti Skid Disk Brake System.(WSP) Make : FAIVELEY Sr no : I 7407	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 Set
48.	Roof mounted AC Package unit Make : DAULATRAM PP: 22B/RMPU/05/1216 CPU No: SA 21091379	RDSO/PE/SPEC/AC/0061 2005,REV-1,TYPE-1	01

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