



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO <b>8067</b>	BOGIE NO <b>187448 / 187449</b>	DISPATCH DATE <b>10-JAN-19</b>
2.	RAILWAY <b>CR</b>	TYPE OF COACH <b>LWLRRM</b>	COACH NO <b>182805</b>
3.	BOOKED TO	<b>SSE/C&amp;W/CST/M</b>	
4.	Tare Weight of Coach	<b>53.4 T</b>	
5.	Carrying Capacity	Seating <b>5</b>	Sleeping <b>3</b> Luggage <b>3.9 T</b>
6.	6.1 Leading Dimensions:		
	i) Maximum length over Body	23700+10/-0	
	ii) Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)	
	iii) Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)	
	iv) CBC Height	Specified: 1105 +0/-15 mm	<b>1105</b>
	v) CBC (Make)		<b>SANROK</b>
	vi) Buffer (Make)		
7.	Air Brake Testing:	Description	Specified
	7.1 Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	06 - 10 Sec
		Max Pressure in BC	3.80±0.15 Kg/cm <sup>2</sup>
		All Brake are applied	OK
	7.2 Insensitivity	Exhaust BP @ 0.3 Kg/cm <sup>2</sup> /mi	No brake application
	7.3 Sensitivity	Exhaust BP @ 0.1 Kg/cm <sup>2</sup> /Sec, After 02 Sec	Brake must apply
8.	Painting Details:	Type of Paint	Make Average Gloss Value
	8.1 Paint	<b>PU PAINT</b>	<b>VIBGYOR 85 / 85</b>
	8.2 Application of PCN-123	<b>SATISFACTORY</b>	
	8.3 Insulation	<b>SATISFACTORY</b>	
9.	Traceability of Furnishing Items:		
	1	<b>EP BRAK / BRAKE EQUIPMENT</b>	<b>FAVELLY</b>
	2	<b>BIO-TOILET</b>	<b>PD STEEL</b>
	3	<b>FLOOR BOARD</b>	<b>TWPL</b>
	4	<b>PVC</b>	<b>RESPONSIVE</b>
	5	<b>UIC VESTIBULES</b>	<b>POLYMER</b>
	6	<b>WATER TANKS</b>	<b>AMIT, RAIL FAB</b>
	7	<b>BODY SIDE DOOR</b>	<b>JVR</b>
	8	<b>VESTIBULE SLIDING DOOR</b>	<b>JBM</b>
	9	<b>SEAT &amp; BEARTH</b>	<b>AAR KAY FOAM</b>
	10	<b>FUEL TANK</b>	<b>SHIVALIK, GAURAV</b>
10.	10.1	Modification/ Trial (If any): 1-AUTOMATIC FIRE DETECTION AND MANUAL SUPRESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S CHAITANYA ELECTRICALS PVT LTD., JALGAON. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S & EMPRISE MARKETING , LUCKNOW ON SIDE WALL AREA OF COACH PARTIALLY.	
	10.2	Deviations (If any): NIL	



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**ROLLING STOCK CERTIFICATE (LHB)**

**QMF 9829, VER:1.00**

11.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8067	CR	LWLRRM	182805	10-JAN-19

**11.1 Wheel & Axle Details:**

i.	Bogie No.	187448				187449			
ii.	Frame No.	FIAT-CA-413				ECBT-162			
iii.	Bolster No.	SF-CA-872				PD-CA-1077			
iv.	Axle No.	H - 8846		H - 9383		H - 9017		Y - 7763	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	917.00	917.00
vii.	Wheel Disc No.	30889-7SH4-TZ	16746-7OM0-TZ	31763-8RH3-TZ	31457-8QP0-TZ	21675-8PN6-TZ	20662-8PR3-TZ	30854-7SH4-TZ	32251-7SH8-TZ
viii.	RB Nos.	25542	25565	25575	25549	25547	36353	25000	28077
ix.	RB Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

**11.2 Secondary suspension load deflection Values:**

Description		Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i.	Make & Nos.	TAYAL-18-4-133	TAYAL-18-4-134	TAYAL-18-4-132	TAYAL-18-4-146

**Items traceability:**

11.3	Sno.	Item	Make	
i.	Primary Outer Spring	GBD-17-11	GBD	
ii.	Primary inner Spring	GBD-18-07	GBD	
iii.	Primary Damper	16809, 16792, 17067, 16802	KBI	
iv.	Secondary Damper	216407, 216366	IAI	
v.	Lateral Damper	209581	IAI	
vi.	Break cylinder & Caliper	N18001-2K,G18020-2K, H18024-2K,H18027-2K	FTI	
vii.	Break Disc		FTI	KBI
viii.	Contral arm top		RV	
ix.	Control arm bottom		RV	
x.	Top rubber Pad		GMT	
xi.	Vertical Bump Stop		GMT	
xii.	Ball Joint Control arm		MB	
xiii.	Lateral Bump stop		GMT	
xiv.	Traction center make		EMSON	
xv.	Traction lever make		JI	
xvi.	Ball joint traction lever		SGA	
xvii.	Traction center elastic		SB	
xviii.	Secondary rubber pad		NIL	
xix.	Rubber spring		NIL	
xx.	Anti roll bar make		SARITA	EMSON
xxi.	Ball joint roll link		SARITA	
xxii.	Fork make		EMSON	SARITA

11.4	i.	Modification/Trail(if any):	NIL
	ii.	Deviations (if any):	Deviations (If any): NIL

**LWLRRM - 8067**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH : LWLRRM**  
**RAILWAY CR**

**Shell No : 8067**  
**COUPLING TYPE : CBC**

**COACH\_NO : 182805**  
**DATE OF FITMENT: 10-JAN-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
1	33635225-1, AC PACKAGE UNIT	EDTS075 TYPE-II	LEEL	18030429
2	33640312-2, SPEAKERS	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	NIL
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES	WEBCC 183981
<b>Group Name BOGIE PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	M/S CHANDA & CHANDA	BOGIE NO.187448
<b>Group Name BOGIE NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	M/S CHANDA & CHANDA	BOGIE NO.187449
<b>Group Name ENGINE ROOM</b>				
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB- 7073
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	2018-06-1032
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	2018-06-1077
<b>Group Name 500 KVA ALTERNATOR SET A</b>				
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121803853
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RFAG0420
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RFG95738
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819142
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819146
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	MICROTEX- 06/18,06/18,06/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180295
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180297
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	180530-11



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**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH :** LWLRRM      **COUPLING TYPE :** CBC      **COACH\_NO :** 182805  
**RAILWAY :** CR      **DATE OF FITMENT:** 10-JAN-19  
**S.No PL No & Item Description**      **Drawing No**      **Make**      **Item Sr.No.(if any)**

<b>Group Name</b> 500 KVA ALTERNATOR SET A			
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS      2018-04-0080
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO      2018-03-93
<b>Group Name</b> 500 KVA ALTERNATOR SET B			
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER      VTC-3089-LHB-7055
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER      VTC-3089-LHB-7105
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      GREAVES COTTON 1309121803882
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      CG RDAG0571
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      CG RFG95736
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      KEC DGSS1819118
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      KEC DGSS1819130
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      MICROTEx-06/18,06/18,06/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      KENT 180111
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      KENT 180091
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL& M/S G&C )	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      180305-25
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C      NA



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**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182805  
RAILWAY CR      DATE OF FITMENT: 10-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

<b>Group Name      500 KVA ALTERNATOR SET B</b>				
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0142
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-96
<b>Group Name      DRIVING END</b>				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 & 1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name      NON-DRIVING END</b>				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 & 1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name      UNDER FRAME</b>				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKS	293220 & 293221
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-1974
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	AECO	2017-07-377
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMAR RAJA	08/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	JS INDOTECH OCP PVT LTD	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEARS & CONTROLS	2018-05-1002
<b>Group Name      UNDER FRAME PP SIDE</b>				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL
<b>Group Name      UNDER FRAME NPP SIDE</b>				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL



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**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH :** LWLRRM      **COUPLING TYPE :** CBC      **COACH\_NO :** 182805  
**RAILWAY :** CR      **DATE OF FITMENT:** 10-JAN-19  
**S.No PL No & Item Description**      **Drawing No**      **Make**      **Item Sr.No.(if any)**

<b>Group Name</b> <b>UNDER FRAME NPP SIDE</b>			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNX. A	S INTERNATIONAL NIL
<b>Group Name</b> <b>CREW ROOM</b>			
0	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	SAB WABCO 25/18/1069
	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	
1	33635020-1, SWITCH BOARD COBINET	EDTS104,REV-A	AECO 45/11-2018
2	33635020-2, DISCONNECTING & EARTHING DEVICE	EDTS104,REV-A	L&T BY AECO NIL
2	33635080-2, PUMP CONTROLLER	EDTS186	LEC CORP 180411198
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS NIL
2	33635225-2, MICRO PROCESSOR CONTROLLER	EDTS075 TYPE-II	LEEL 1804052
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V,3- PHASE,50 HZ,185W,1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUSTIN	EDTS331,TYPE-2	M/S INTEG ELECTRONICS NIL
1	33640312-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA 4548513
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES WEBCC 184030
1	33640543-1, DA CONTROL PANEL FOR 2 X 500KVA DGSETS.	EDTS 103, REV-D, AM-3	ESS ESS KAY ENGG. CO. 2018-08-012
2	33640543-2, HOG PANEL FOR CONTROL OF CONVERTOR/DG SUPPLY.	EDTS 103, REV-D, AM-3	AECO INTEGRATED WITH DA PANEL
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD 03181627
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD 03181606
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "A"	EDTS215	DHINGRA ENGINEERING WORKS NIL





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ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA

TYPE OF COACH : LWLRRM  
RAILWAY CR

COUPLING TYPE : CBC

COACH\_NO : 182805  
DATE OF FITMENT: 10-JAN-19

**SSE/EL/QC**

**AME/WM QC/DY CQM I**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO <b>8065</b>	BOGIE NO <b>196005</b> / <b>196006</b>	DISPATCH DATE <b>11-JAN-19</b>
2.	RAILWAY <b>CR</b>	TYPE OF COACH <b>LWLRRM</b>	COACH NO <b>182806</b>
3.	BOOKED TO	<b>SSE/C&amp;W/CST/M</b>	
4.	Tare Weight of Coach	<b>53.4 T</b>	
5.	Carrying Capacity	Seating <b>5</b>	Sleeping <b>3</b> Luggage <b>3.9 T</b>
6.	6.1 Leading Dimensions:		
	i) Maximum length over Body	23700+10/-0	
	ii) Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)	
	iii) Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)	
	iv) CBC Height	Specified: 1105 +0/-15 mm	<b>1102</b> <b>1104</b>
	v) CBC (Make)		<b>ESCORTS</b> <b>ESCORTS</b>
	vi) Buffer (Make)		
7.	Air Brake Testing:	Description	Specified
	7.1 Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	06 - 10 Sec
		Max Pressure in BC	3.80±0.15 Kg/cm <sup>2</sup>
		All Brake are applied	OK
	7.2 Insensitivity	Exhaust BP @ 0.3 Kg/cm <sup>2</sup> /mi	No brake application
	7.3 Sensitivity	Exhaust BP @ 0.1 Kg/cm <sup>2</sup> /Sec, After 02 Sec	Brake must apply
8.	Painting Details:	Type of Paint	Make Average Gloss Value
	8.1 Paint	<b>PU PAINT</b>	<b>VIBGYOR</b> <b>88 / 88</b>
	8.2 Application of PCN-123	<b>SATISFACTORY</b>	
	8.3 Insulation	<b>SATISFACTORY</b>	
9.	Traceability of Furnishing Items:		
	1	<b>EP BRAK / BRAKE EQUIPMENT</b>	<b>FAVELLY</b>
	2	<b>BIO-TOILET</b>	<b>JSL</b>
	3	<b>FLOOR BOARD</b>	<b>TWPL</b>
	4	<b>PVC</b>	<b>RESPONSIVE</b>
	5	<b>UIC VESTIBULES</b>	<b>POLYMER</b>
	6	<b>WATER TANKS</b>	<b>AMIT, RAIL FAB</b>
	7	<b>BODY SIDE DOOR</b>	<b>JVR</b>
	8	<b>VESTIBULE SLIDING DOOR</b>	<b>JBM</b>
	9	<b>SEAT &amp; BEARTH</b>	<b>AAR KAY FOAM</b>
	10	<b>FUEL TANK</b>	<b>PD STEEL, SHIVALIK</b>
10.	10.1	Modification/ Trial (If any): 1-AUTOMATIC FIRE DETECTION CUM SUPRESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S CHATANYA ELECTRICALS PVT. LTD, JALGAON. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S 2 EMPRISE MARKETING , LUCKNOW ON SIDE WALL AREA OF COACH PARTIALLY.	
	10.2	Deviations (If any): NIL	





**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		8065	CR	LWLRRM	182806	11-JAN-19			

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	196005				196006			
ii.	Frame No.	FIAT-CA-772				ECBT-153			
iii.	Bolster No.	PD-CA-1140				PD-CA-1157			
iv.	Axle No.	J-1918		J-1904		G-3687		J-1020	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
vii.	Wheel Disc No.	18773-7NJ8-TZ	18771-7OQ0-TZ	18772-7OM0-TZ	18234-7OQ0-TZ	31159-7SH4-TZ	28891-7RJ3-TZ	27600-8QG3-TZ	32768-8RG5-TZ
viii.	RB Nos.	28284	26074	26084	28290	28288	25530	26077	27817
ix.	RB Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

  

<b>11.2 Secondary suspension load deflection Values:</b>				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	TAYAL-18-4-112	TAYAL-18-6-428	TAYAL-18-4-057	TAYAL-18-4-151

  

**Items traceability:**

<b>11.3</b>	<b>Sno.</b>	<b>Item</b>	<b>Make</b>	
	i.	Primary Outer Spring	GBD-17-11	GBD-17-11
	ii.	Primary inner Spring	GBD-18-07	GBD-18-07
	iii.	Primary Damper	00272, 00303, 00241, 00273	00289, 00276, 00378, 00284
	iv.	Secondary Damper	216444, 216373	216384, 216441
	v.	Lateral Damper	209615	209526
	vi.	Break cylinder & Caliper	H18028-2K,H18023-2K, H18038-2K,H18003-2K	H18052-2K,N18013-2K, H18049-2K,N18002-2K
	vii.	Break Disc		KBI
	viii.	Contral arm top		RV
	ix.	Control arm bottom		RV
	x.	Top rubber Pad		GMT
	xi.	Vertical Bump Stop		GMT
	xii.	Ball Joint Control arm		MB
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		BONY
	xvii.	Traction center elastic		SB
	xviii.	Secondary rubber pad		NIL
	xix.	Rubber spring		NIL
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		EMSON

  

<b>11.4</b>	i. Modification/Trail(if any):	NIL
	ii. Deviations (if any):	Deviations (If any): NIL

**LWLRRM - 8065**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH : LWLRRM**  
**RAILWAY CR**

**Shell No : 8065**  
**COUPLING TYPE : CBC**

**COACH\_NO : 182806**  
**DATE OF FITMENT: 11-JAN-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
1	33635225-1, AC PACKAGE UNIT	EDTS075 TYPE-II	INTEC CORPORATION	1801021
2	33640312-2, SPEAKERS	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	NIL
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	ELECTRO WAVES	WEBCC 183967
<b>Group Name BOGIE PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	CHANDA AND CHANDA	BOGIE NO.196006
<b>Group Name BOGIE NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	CHANDA AND CHANDA	BOGIE NO.196005
<b>Group Name ENGINE ROOM</b>				
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB- 7041
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	2018-06-1082
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	2018-10-4971
<b>Group Name 500 KVA ALTERNATOR SET A</b>				
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121804085
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RDAG1580
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RDG 95734
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819...
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819...
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	MICROTEX- 04/18,04/18,04/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180072
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180127
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	180407-35
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182806  
RAILWAY CR      DATE OF FITMENT: 11-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

**Group Name      500 KVA ALTERNATOR SET A**

12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0112
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-111

**Group Name      500 KVA ALTERNATOR SET B**

0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7074
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7062
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121804040
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	CG RDAG1178
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	CG RFG95729
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS1819...
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS1819...
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	MICROTEx-06/18,06/18,06/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180073
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180114
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	180305-04
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0070



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182806  
RAILWAY CR      DATE OF FITMENT: 11-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

<b>Group Name</b> 500 KVA ALTERNATOR SET B				
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-010
<b>Group Name</b> DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name</b> NON-DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name</b> UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKS	293198 & 293199
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2017-11-358
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	AECO	2017-07-281
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMAR RAJA	08/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	JS INDOTECH OCP PVT LTD	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-1805-0035
<b>Group Name</b> UNDER FRAME PP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	MAA LAXMI INDUSTRIES	NIL
<b>Group Name</b> UNDER FRAME NPP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	MAA LAXMI INDUSTRIES	NIL
<b>Group Name</b> CREW ROOM				



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH :** LWLRRM      **COUPLING TYPE :** CBC      **COACH\_NO :** 182806  
**RAILWAY :** CR      **DATE OF FITMENT:** 11-JAN-19  
**S.No PL No & Item Description**      **Drawing No**      **Make**      **Item Sr.No.(if any)**

<b>Group Name</b>		<b>CREW ROOM</b>		
0	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	SAB WABCO	28/18/2017
	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02		
1	33635020-1, SWITCH BOARD COBINET	EDTS104,REV-A	AECO	35/11-2018
2	33635020-2, DISCONNECTING & EARTHING DEVICE	EDTS104,REV-A	L&T BY AECO	NIL
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORKS	CPA-6917
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
2	33635225-2, MICRO PROCESSOR CONTROLLER	EDTS075 TYPE-II	INTEC CORPORATION	A PAUL 18101830
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V,3-PHASE,50 HZ,185W,1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUSTIN	EDTS331,TYPE-2	M/S INTEG ELECTRONICS	NIL
1	33640312-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	4592243
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	ELECTRO WAVES	WEBCC 184036
1	33640543-1, DA CONTROL PANEL FOR 2 X 500KVA DGSETS.	EDTS 103, REV-D, AM-3	ESS ESS KAY ENGG. CO.	2018-08-082
2	33640543-2, HOG PANEL FOR CONTROL OF CONVERTOR/DG SUPPLY.	EDTS 103, REV-D, AM-3	ESS ESS KAY ENGG. CO.	INTEGRATED WITH DA PANEL
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD	03186613
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD	03186632
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "A"	EDTS215	DHINGRA ENGINEERING WORKS	NIL



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RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA

TYPE OF COACH : LWLRRM	COUPLING TYPE : CBC	COACH_NO :	182806
RAILWAY CR		DATE OF FITMENT:	11-JAN-19
SSE/EL/QC		AME/WM QC/DY CQM I	





**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO <b>8063</b>	BOGIE NO <b>187442</b> / <b>187443</b>	DISPATCH DATE <b>15-JAN-19</b>
2.	RAILWAY <b>CR</b>	TYPE OF COACH <b>LWLRRM</b>	COACH NO <b>182807</b>
3.	BOOKED TO	<b>SSE/C&amp;W/CST/M</b>	
4.	Tare Weight of Coach	<b>53.4 T</b>	
5.	Carrying Capacity	Seating <b>5</b>	Sleeping <b>3</b> Luggage <b>3.9 T</b>
6.	6.1 Leading Dimensions:		
	i) Maximum length over Body	23700+10/-0	
	ii) Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)	
	iii) Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)	
	iv) CBC Height	Specified: 1105 +0/-15 mm	<b>1105</b>
	v) CBC (Make)		<b>SANROK</b>
	vi) Buffer (Make)		
7.	Air Brake Testing:	Description	Specified
	7.1 Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	06 - 10 Sec
		Max Pressure in BC	3.80±0.15 Kg/cm <sup>2</sup>
		All Brake are applied	OK
	7.2 Insensitivity	Exhaust BP @ 0.3 Kg/cm <sup>2</sup> /min	No brake application
	7.3 Sensitivity	Exhaust BP @ 0.1 Kg/cm <sup>2</sup> /Sec, After 02 Sec	Brake must apply
8.	Painting Details:	Type of Paint	Make Average Gloss Value
	8.1 Paint	<b>PU PAINT</b>	<b>VIBGYOR 86 / 86</b>
	8.2 Application of PCN-123	<b>SATISFACTORY</b>	
	8.3 Insulation	<b>SATISFACTORY</b>	
9.	Traceability of Furnishing Items:		
	1	<b>EP BRAK / BRAKE EQUIPMENT</b>	<b>FAVELLY</b>
	2	<b>BIO-TOILET</b>	<b>RISHILASER</b>
	3	<b>FLOOR BOARD</b>	<b>TWPL</b>
	4	<b>PVC</b>	<b>RESPONSIVE</b>
	5	<b>UIC VESTIBULES</b>	<b>POLYMER</b>
	6	<b>WATER TANKS</b>	<b>RAIL FAB, RAIL TECH</b>
	7	<b>BODY SIDE DOOR</b>	<b>JVR</b>
	8	<b>VESTIBULE SLIDING DOOR</b>	<b>JBM</b>
	9	<b>SEAT &amp; BEARTH</b>	<b>AAR KAY FOAM</b>
	10	<b>FUEL TANK</b>	<b>SHIVALIK</b>
10.	10.1	Modification/ Trial (If any): 1-AUTOMATIC FIRE DETECTION CUM SUPRESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S CHAITANYA ELECTRICALS PVT. LTD., JALGAON. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S 2 EMPRISE MARKETING , LUCKNOW ON SIDE WALL AREA OF COACH PARTIALLY.	
	10.2	Deviations (If any): NIL	





**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**QMF 9829, VER:1.00**

11.	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date
		8063	CR	LWLRRM	182807	15-JAN-19

**11.1 Wheel & Axle Details:**

i.	Bogie No.	187442				187443			
ii.	Frame No.	FIAT-CA-833				ECBT-158			
iii.	Bolster No.	PD-CA-1135				PD-CA-1112			
iv.	Axle No.	H- 9129		H- 9222		H- 8997		J- 1011	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	917.00	917.00
vii.	Wheel Disc No.	31459-8Q00-TZ	24469-8PS2-TZ	26904-8MG5-TZ	26902-8MQ5-TZ	18059-8MV0-TZ	08014-7NN4-TZ	35432-8QL6-TZ	34810-8RH1-TZ
viii.	RB Nos.	25009	25006	36727	27418	28387	16612	17146	27536
ix.	RB Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

**11.2 Secondary suspension load deflection Values:**

Description		Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i.	Make & Nos.	TAYAL-18-6-448	TAYAL-18-6-419	TAYAL-18-6-390	TAYAL-18-6-461

**Items traceability:**

11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	GBD-17-11	GBD-18-02
	ii.	Primary inner Spring	GBD-18-07	GBD-18-07
	iii.	Primary Damper	16793, 16811, 16803, 17052	17054, 17055, 17068, 16816
	iv.	Secondary Damper	216418, 216442	3515, 3480
	v.	Lateral Damper	209620	209524
	vi.	Break cylinder & Caliper	H18037-2K,H18025-2K, H18094-2,H18026-2K	H18063-2K,H18012-2K, H18064-2K,H18021-2K
	vii.	Break Disc		FTI
	viii.	Contral arm top		RV
	ix.	Control arm bottom		RV
	x.	Top rubber Pad		AVADH
	xi.	Vertical Bump Stop		GMT
	xii.	Ball Joint Control arm		GMT
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		EMSON
	xv.	Traction lever make		SARITA
	xvi.	Ball joint traction lever		GMT
	xvii.	Traction center elastic		GMT
	xviii.	Secondary rubber pad		NIL
	xix.	Rubber spring		NIL
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		EMSON

11.4	i.	Modification/Trail(if any):	NIL
	ii.	Deviations (if any):	Deviations (If any): NIL

**LWLRRM - 8063**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH : LWLRRM**  
**RAILWAY CR**

**Shell No : 8063**  
**COUPLING TYPE : CBC**

**COACH\_NO : 182807**  
**DATE OF FITMENT: 15-JAN-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
1	33635225-1, AC PACKAGE UNIT	EDTS075 TYPE-II	LEEL	18050884
2	33640312-2, SPEAKERS	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	NIL
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	M B & COMPANY	2017-10-467
<b>Group Name BOGIE PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	CHANDA AND CHANDA	BOGIE NO.187442
<b>Group Name BOGIE NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	CHANDA AND CHANDA	BOGIE NO.187443
<b>Group Name ENGINE ROOM</b>				
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB- 7039
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	1806-10
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	1806-1088
<b>Group Name 500 KVA ALTERNATOR SET A</b>				
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121805270
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RDAG1579
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	RDG 95730
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819103
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819108
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	MICROTEX- 07/18,07/18,07/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180097
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180112
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	180407-32
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182807  
RAILWAY CR      DATE OF FITMENT: 15-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

**Group Name      500 KVA ALTERNATOR SET A**

12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0081
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-101

**Group Name      500 KVA ALTERNATOR SET B**

0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7077
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7068
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121805366
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	CG RFAG0579
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	RCG 49528
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS181992
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS181963
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	MICROTEx-04/18,04/18,04/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180160
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180278
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	180515-40
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0111



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182807  
RAILWAY CR      DATE OF FITMENT: 15-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

Group Name      500 KVA ALTERNATOR SET B				
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-070

Group Name      DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK

Group Name      NON-DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK

Group Name      UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKS	293166 & 293167
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2017-07-316
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	AECO	2017-07-316
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMAR RAJA	08/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	JS INDOTECH OCP PVT LTD	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	INTERNATIONAL SWITCHGEAR PVT LTD.	CB-RCF-18050036

Group Name      UNDER FRAME PP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	S INTERNATIONAL	NIL

Group Name      UNDER FRAME NPP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANN. A	S INTERNATIONAL	NIL

Group Name      CREW ROOM				
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**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182807  
RAILWAY : CR      DATE OF FITMENT: 15-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

Group Name	CREW ROOM			
0	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	SAB WABCO	17/18/736
	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02		
1	33635020-1, SWITCH BOARD COBINET	EDTS104,REV-A	AECO	39/11-2018
2	33635020-2, DISCONNECTING & EARTHING DEVICE	EDTS104,REV-A	L&T BY AECO	NIL
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORKS	CPA 6812
2	33635146-2, SMOKE SENSOR	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
2	33635225-2, MICRO PROCESSOR CONTROLLER	EDTS075 TYPE-II	LEEL	A PAUL 1806035
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V,3-PHASE,50 HZ,185W,1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUSTIN	EDTS331,TYPE-2	M/S INTEG ELECTRONICS	NIL
1	33640312-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	4592264
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/50 Fully Bridge Diode Based with	M B & COMPANY	2018-02-995
1	33640543-1, DA CONTROL PANEL FOR 2 X 500KVA DGSETS.	EDTS 103, REV-D, AM-3	AECO	40/08-2018
2	33640543-2, HOG PANEL FOR CONTROL OF CONVERTOR/DG SUPPLY.	EDTS 103, REV-D, AM-3	AECO	INTEGRATED WITH DA PANEL
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD	03181621
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD	03181612
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "A"	EDTS215	DHINGRA ENGINEERING WORKS	NIL



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RAIL COACH FACTORY, KAPURTHALA  
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF  
LHB POWER CAR EOG AIR BRAKE 500X2 KVA

TYPE OF COACH : LWLRRM	COUPLING TYPE : CBC	COACH_NO :	182807
RAILWAY CR		DATE OF FITMENT:	15-JAN-19
SSE/EL/QC		AME/WM QC/DY CQM I	





**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO <b>8062</b>	BOGIE NO	187402 / 187403	DISPATCH DATE	16-JAN-19
2.	RAILWAY <b>CR</b>	TYPE OF COACH	<b>LWLRRM</b>	COACH NO	<b>182808</b>
3.	BOOKED TO	<b>SSE/C&amp;W/CST/M</b>			
4.	Tare Weight of Coach	<b>53.4 T</b>			
5.	Carrying Capacity	Seating	<b>5</b>	Sleeping	<b>3</b>
		Luggage	<b>3.9 T</b>		
6.	6.1 Leading Dimensions:				
	i)	Maximum length over Body	23700+10/-0		
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)		
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBCAC, LWLRRM), 4366 (for LWSCZDAC)		
	iv)	CBC Height	Specified: 1105 +0/-15 mm	<b>1105</b>	<b>1105</b>
	v)	CBC (Make)		<b>SANROK</b>	<b>SANROK</b>
	vi)	Buffer (Make)			
7.	Air Brake Testing:		Description	Specified	
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup>	06 - 10 Sec	
			Max Pressure in BC	3.80±0.15 Kg/cm <sup>2</sup>	
			All Brake are applied	OK	
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm <sup>2</sup> /mi	No brake application	
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm <sup>2</sup> /Sec, After 02 Sec	Brake must apply	
8.	Painting Details:		Type of Paint	Make	Average Gloss Value
	8.1	Paint	<b>PU PAINT</b>	<b>VIBGYOR</b>	<b>86 / 96</b>
	8.2	Application of PCN-123	<b>SATISFACTORY</b>		
	8.3	Insulation	<b>SATISFACTORY</b>		
9.	Traceability of Furnishing Items:				
	1	EP BRAK / BRAKE EQUIPMENT	KBI		
	2	BIO-TOILET	RISHILASER		
	3	FLOOR BOARD	TWPL		
	4	PVC	RESPONSIVE		
	5	UIC VESTIBULES	POLYMER		
	6	WATER TANKS	RAIL FAB, RAIL TECH		
	7	BODY SIDE DOOR	JVR		
	8	VESTIBULE SLIDING DOOR	JBM		
	9	SEAT & BEARTH	AAR KAY FOAM		
	10	FUEL TANK	SHIVALIK		
10.	10.1	Modification/ Trial (If any): 1-AUTOMATIC FIRE DETECTION AND MANUAL SUPRESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S CHAITANYA ELECTRICALS PVT.LTD, JALGAON. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S ॐ EMPRISE MARKETING , LUCKNOW ON SIDE WALL AREA OF COACH PARTIALLY.			
	10.2	Deviations (If any): NIL			





**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**QMF 9829, VER:1.00**

<b>11.</b>	<b>Bogie Details:</b>	Shell No.	Railway	Type	Coach No.	Dispatch Date			
		8062	CR	LWLRRM	182808	16-JAN-19			

  

<b>11.1 Wheel &amp; Axle Details:</b>									
i.	Bogie No.	187402				187403			
ii.	Frame No.	FIAT-CA-802				ECBT-018			
iii.	Bolster No.	AMIT-CA-68				AMIT-CA-93			
iv.	Axle No.	H- 2633		G- 9067		F- 7652		H- 2665	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	916.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00
vii.	Wheel Disc No.	08079-7NL1-TZ	24085-8PP7-TZ	30850-7SH4-TZ	30852-7SH4-TZ	11849-7OQ1-TZ	11842-7OQ1-TZ	08077-7NN8-TZ	26012-8ML2-TZ
viii.	RB Nos.	36504	25742	37251	26189	25753	25260	25733	27559
ix.	RB Make	SKF		SKF		SKF		SKF	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

  

<b>11.2 Secondary suspension load deflection Values:</b>					
Description		Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i.	Make & Nos.	AVADH-271	AVADH-322	AVADH-910	AVADH-907

  

<b>Items traceability:</b>					
11.3	Sno.	Item			Make
	i.	Primary Outer Spring	GBD-18-02		GBD
	ii.	Primary inner Spring	BPS-2013		BPS
	iii.	Primary Damper	0029, 0019, 0032, 0061		ESCORTS
	iv.	Secondary Damper	3510, 3474		GABRIEL
	v.	Lateral Damper	209540		IAI
	vi.	Break cylinder & Caliper	A2010-261,M1771-260, A2011-261,M1770-260		KBI
	vii.	Break Disc			KBI
	viii.	Contral arm top			RV
	ix.	Control arm bottom			RV
	x.	Top rubber Pad			AVADH
	xi.	Vertical Bump Stop			GMT
	xii.	Ball Joint Control arm			SB
	xiii.	Lateral Bump stop			AVADH
	xiv.	Traction center make			EMSON
	xv.	Traction lever make			JI
	xvi.	Ball joint traction lever			BONY
	xvii.	Traction center elastic			GMT
	xviii.	Secondary rubber pad			NIL
	xix.	Rubber spring			NIL
	xx.	Anti roll bar make			EMSON
	xxi.	Ball joint roll link			SARITA
	xxii.	Fork make			EMSON

  

11.4	i.	Modification/Trail(if any):	NIL	
	ii.	Deviations (if any):	Deviations (If any): NIL	

**LWLRRM - 8062**



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH : LWLRRM**  
**RAILWAY CR**

**Shell No : 8062**  
**COUPLING TYPE : CBC**

**COACH\_NO : 182808**  
**DATE OF FITMENT: 16-JAN-19**

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
<b>Group Name PP-SIDE</b>				
1	33635225-1, AC PACKAGE UNIT	EDTS075 TYPE-II	INTEC CORPORATION	16M671
2	33640312-2, SPEAKERS	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA	NIL
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	M B & COMPANY	201710501
<b>Group Name BOGIE PP SIDE</b>				
1	33635067-1, BOGIE 1	EDTS101 REV-"A"	DARSHAN ENTERPRISES	BOGIE NO.187402
<b>Group Name BOGIE NPP SIDE</b>				
2	33635067-2, BOGIE 2	EDTS101 REV-"A"	DARSHAN ENTERPRISES	BOGIE NO.187403
<b>Group Name ENGINE ROOM</b>				
1	33635146-1, SMOKE SENSOR UNIT	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS	NIL
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB- 5886
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	NEC	2017-06-1160504
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR	EDTS116	RSI SWITCH GEARS	100166
<b>Group Name 500 KVA ALTERNATOR SET A</b>				
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121804016
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG RDAG0567
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	CG
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819153
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KEC DGSS1819152
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	MICROTEX- 07/18,07/18,07/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180174
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	KENT 180095
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL & M/S G&C )	EDTS 102 ,REV- D,AM-4,PART- A	M/S G&C	180407-05



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH : LWLRRM**      **COUPLING TYPE : CBC**      **COACH\_NO : 182808**  
**RAILWAY CR**      **DATE OF FITMENT: 16-JAN-19**  
**S.No PL No & Item Description**      **Drawing No**      **Make**      **Item Sr.No.(if any)**

<b>Group Name 500 KVA ALTERNATOR SET A</b>				
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0073
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-02-77
<b>Group Name 500 KVA ALTERNATOR SET B</b>				
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7106
0	33635183-0, 60 KVA TRANSFORMER	EDTS076	VIMAL TRANSFORMER	VTC-3089-LHB-7080
1	33635316-1, ENGINE 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	GREAVES COTTON 1309121803847
2	33635316-2, ALTERNATOR 500KVA	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	CG RDAG1135
3	33635316-3, RADIATOR FAN MOTOR	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	CG
4	33635316-4, VENTILATOR FAN MOTOR-1	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS1819178
5	33635316-5, VENTILATOR FAN MOTOR-2	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KEC DGSS1819174
6	33635316-6, STARTER BATTERY 290AH CAPACITY	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	MICROTEX-07/18,07/18,07/18
7	33635316-7, ELECTRONIC ENGINE CONTROLLER	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180087
9	33635316-9, FUEL CONSUMPTION METER (OUTPUT)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	KENT 180159
10	33635316-10, OVER VOLTAGE RELAY (IN CASE OF M/S BHEL& M/S G&C )	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	180407-08
11	33635316-11, DATA LOGGER UNIT ( IN CASE OF CUMMINS ENGINE)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA
12	33635316-12, NEUTRAL REACTOR( IN CASE OF M/S G&C)	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NEPL
13	33635316-13, RADIATOR FRAME	EDTS 102 ,REV-D,AM-4,PART- A	M/S G&C	NA



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

**TYPE OF COACH :** LWLRRM      **COUPLING TYPE :** CBC      **COACH\_NO :** 182808  
**RAILWAY :** CR      **DATE OF FITMENT:** 16-JAN-19  
**S.No PL No & Item Description**      **Drawing No**      **Make**      **Item Sr.No.(if any)**

<b>Group Name</b> 500 KVA ALTERNATOR SET B				
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110	NEC SW. GEARS	2018-04-0134
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA	EDTS114 REV-A	AECO	2018-03-80
<b>Group Name</b> DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name</b> NON-DRIVING END				
0	33635092-0, EXT.SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS	CATALOGUE NO 1945436/PV 4125-6 &1948036/UIV 4125-6 RES. OF M/S GARO OREQUIVELANT APPROVED MAKE	M V ELECTRO SYSTEM	IPSK
<b>Group Name</b> UNDER FRAME				
1	33635080-1, PUMP	EDTS186	KALSI METAL WORKS	288091 & 288092
0	33640178-0, BATTERY FUSE BOX -VE	LW71002 ALT"a"	INTEG ELECTRONICS	2018-08-2010
0	33640786-0, BATTERY FUSE BOX +VE	LW71001 ALT"a"	AECO	2017-07-347
0	33641729-0, 70AH,110V, VRLA LEAD ACID MAINTENANCE FREE BATTERY(9 NOSX12V)	RDSO/PE/SPEC/AC/0 09-2008,REV-1 WITH AM-1	AMAR RAJA	08/2018
0	33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'C'.	PRECISION METAL FAB	NIL
1	35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130, TABLE-2	NEC SWITCHGEARS & CONTROLS	2018-05-0597
<b>Group Name</b> UNDER FRAME PP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNEX. A	S INTERNATIONAL	NIL
<b>Group Name</b> UNDER FRAME NPP SIDE				
0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR	EDML021 REV-A	NEC	NIL



**RAIL COACH FACTORY, KAPURTHALA**  
**ROLLING STOCK CERTIFICATE (LHB)**

**FOR ELECTRICAL ITEMS**

**ROLLING STOCK CERTIFICATE OF**  
**LHB POWER CAR EOG AIR BRAKE 500X2 KVA**

TYPE OF COACH : LWLRRM      COUPLING TYPE : CBC      COACH\_NO : 182808  
RAILWAY CR      DATE OF FITMENT: 16-JAN-19  
S.No PL No & Item Description      Drawing No      Make      Item Sr.No.(if any)

Group Name      UNDER FRAME NPP SIDE			
0	33641110-0, ZS COUPLING 500A,750V,3-PHASE 50HZ	EDTS105,,REV-E,AM1&2 WITH ANNX. A	S INTERNATIONAL NIL
Group Name      CREW ROOM			
0	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	KNOOR BREMSE 0118024237
	33501439-0, AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-POWER CAR COACHES	MDTS077 REV. 02	
1	33635020-1, SWITCH BOARD COBINET	EDTS104,REV-A	AECO 48/11-2018
2	33635020-2, DISCONNECTING & EARTHING DEVICE	EDTS104,REV-A	L&T BY AECO NIL
2	33635080-2, PUMP CONTROLLER	EDTS186	KALSI METAL WORKS CPA 6813
2	33635146-2, SMOKE SENSOR	SPEC.NO EDTS087 TYPE-II	AGNI INSTRUMENTS NIL
2	33635225-2, MICRO PROCESSOR CONTROLLER	EDTS075 TYPE-II	SIDWAL REFRIGERATION 1810839
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V,3- PHASE,50 HZ,185W,1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUSTIN	EDTS331,TYPE-2	M/S INTEG ELECTRONICS NIL
1	33640312-1, PUBLIC ADDRESSING SYSTEM	EDTS173,TYPE-II	PUNJAB RADIOS/AHUJA 4592233
0	33640361-0, EMERGENCY BATTERY CHARGER	M/s Pyramid model no.PYRA/BCUR/415/ 50 Fully Bridge Diode Based with	M B & COMPANY 201710491
1	33640543-1, DA CONTROL PANEL FOR 2 X 500KVA DGSETS.	EDTS 103, REV-D, AM-3	ESS ESS KAY ENGG. CO. 2018-08-077
2	33640543-2, HOG PANEL FOR CONTROL OF CONVERTOR/DG SUPPLY.	EDTS 103, REV-D, AM-3	ESS ESS KAY (HOG PANEL) INTEGRATED WITH DA PANEL
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD 03181629
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET	EDTS106	BHASIN PACKARD 03181622
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "A"	EDTS215	DHINGRA ENGINEERING WORKS NIL



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RAIL COACH FACTORY, KAPURTHALA  
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LHB POWER CAR EOG AIR BRAKE 500X2 KVA

TYPE OF COACH : LWLRRM  
RAILWAY CR

COUPLING TYPE : CBC

COACH\_NO : 182808

DATE OF FITMENT: 16-JAN-19

**SSE/EL/QC**

**AME/WM QC/DY CQM I**