



# Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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

REV NO: 00

DATE: 10.10.2017

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 17-18/530

Coach No.	1	7	8	6	6	5	/	C	-	DATE OF DISPATCH	0	8	-	0	2	-	1	8
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RLY	W	R	-	-	Type	L	W	L	R	R	M	Shell No.	7	8	0	1	0	-	2	0	1	7	-	1	8
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1. Railway Board's Order No. : 2016/M(C)/142/2 Dated. 28.07.2017
2. Tare Weight of Coach : 53.2 Tonnes
3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones

### 4. SHELL LEADING DIMENSIONS:

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail Level	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1105 (NPPE) 2) 1101 (PPE)

### 5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	M/s Amit engg
		Complete	M/s MCF/RBL
2.	Side wall	M/s MCF/RBL	RH 78010 LH 78010
3.	End wall	M/S Rail tech pvt.ltd. KXH	PP END 78010 NPP END 78010
		M/S Rail tech pvt.ltd. KXH	
4.	Roof	M/s MCF/RBL	
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 1721 NPP END 1735
6.	Buffers	M/S Raneka ind.ltd.	N.A NPP END 78010

### 6. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1.	Full brake application	Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> . Max. pressure in BC All Brake are applied	6 – 10 sec. 3.0 ± 0.15 kg/cm <sup>2</sup> . OK	07 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, after 06 Sec.	Brake must apply	OK
4.	Handbrake(Parking brake)for generator car	1.Apply hand brake 2.Release hand brake	1.Hand Bk. indicator should be red 2.Hand Bk. indicator should be green	OK OK

### 7. FIRE TESTING:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1	generator car	Smoke detection	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate	OK
		Heat detection	1.controller should display smoke/heat in zone 1,2 2 strobe light & hooter should activate	OK

### 8. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-VIBGYOR	SUPPLY & APPLY	83/89
2.	Insulation			Satisfactory	

SSE/QC/MCF/RBL

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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DATE: 16.05.2016

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**9. DETAIL OF BOGIES :**

ITEMS	NPP Side				PP Side			
Bogie No	170408				170407			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-694				AML-08			
Bolster no.	MCF/RBL-1057				MCF/RBL-1082			
Axle No	F-9564		F-9207		F-9972		F-9502	
Wheel Dia	917.516	917.590	917.521	917.592	917.552	917.625	917.549	917.599
Wheel Disc No	TZ04-17 08718-70J7	TZ04-17 08719-70J7	TZ04-17 08668-70J7	TZ04-16 08716-70J7	TZ04-17 08665-70J7	TZ04-17 08667-70J7	TZ04-17 08669-70J7	TZ04-17 08666-70J7
R.B. Nos.	12-16 93050	05-16 96778	12-16 93457	07-16 71707	12-16 93440	05-16 98946	12-16 92683	05-16 62222
CT R B Make	SKF		SKF		SKF		SKF	

**10. 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-08-17-836-91-221	CVFSK-04-17-F17-193-16	CMGBD-08-17-836-91-215	CVFSK-04-17-F17-193-10	CMGBD-11-16-146-138	CMGBD-11-16-5120-134	CMGBD-11-16-146-138	CMGBD-06-15-145-32
Compressed Ht. at Tested Load	515	470	515	469	511	468	512	468
Alignment deviation (mm)	07	08	09	15	10	10	09	09

**11. TRACEABILITY OF BOGIE ITEMS:**

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	124,343	134,133
2.	Primary outer Spring	CMGBD	03-17(39,34,17,12)	03-17(27,22,43,28)
3.	Primary Inner Spring	CVFRSK	05-17(08,01,149,183)	05-17(10,86,39,172)
4.	Primary Damper	KNORR	09-17-11168-08-17(11043,11067,10924)	08-17(10910,11130,11152,09-17-11179
5.	Secondary Damper	SV/KONI	05-17-019525	20-2016(9679,-)
6.	Lateral Damper	GABRIEL/KONI	09-17 1553	42-2016 5804
7.	Brake Cylinder	ESCORT	04-17(37677,37721,37720,37676)	04-17(37679,37787,37773,3768)
8.	Brake Caliper	ESCORT	04-17(20844,20931,20930,20845)	04-17(20847,20952,20938,20846)
9.	Brake Disc	KBI	24103253-0001-22-17, 24103252-0039-22-17, 24103250-0012-21-17, 24103250-0010-21-17,	24103254-0040-22-17, 24103254-0039-22-17, 24103254-0031-22-17, 24103254-0033-22-17,
10.	Ball Joint Control Arm	S-BLOC		
11.	Lateral Bump Stop	WINLANE		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JL		
14.	Ball joint traction lever	S-BLOC		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	TECSPA/PRAG		
17.	Rubber Spring	MTC		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/S-BLOC		
20.	Fork make	SARITA		

Signature of SSE/Bogie/QC





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## ROLLING STOCK CERTIFICATE

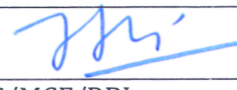
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### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S Escorts ltd railway equipment FBD	2017080019
2.	Distribution valve	M/S Escorts ltd railway equipment FBD	1708A019
3.	Hand brake equipment	M/s Vanni precision ind.Punchkula	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL mumbai	
6.	PVC	M/s Responsive ind.mumbai	
7.	UIC Vestibule (NPPE)	M/s-Sunrest ind.kolkata	
8.	Gangway bridge mounting (NPPE)	M/s Mahaveer metal KXH	
9.	AL. Chequer plate/sheet	M/s Hanspal coach products KXH	
10.	Automatic fire detection & suppression system	M/S Sanrok faridabad	
11.	Body Side Window	M/S Rail tech pvt.ltd. KXH	
12.	Lavatory/hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
13.	Roof Ceiling	M/s Gandhi ent. Jalandhar	
14.	Generator room ceiling	M/s Amirchand engg.works Jalandhar	
15.	RMPU	M/s Amit engg.baddi	
16.	AC Trough	M/s Geepee guargaon	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S Rail tech pvt.ltd. KXH	
19.	Body Side Doors D2	M/s JBM Faridabad	
20.	Body Side Doors D1	M/s Sukata CDG	
21.	Vestibule Door(NPPE)	M/s JBM Faridabad	
22.	Crew/gen. room door	M/s JBM Faridabad	
23.	Crew/guard room door	M/s kalsi LDH	
24.	Bio Tank (01 No LAV.)	M/S Rail tech pvt.ltd. KXH	
25.	Auxiliary Water Tank(1x30L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Under Slung Water Tank (1x450 L)	M/s Amit engg.mohali	
27.	Fuel tank (2x1500 L)	M/s Shivalic fastners pvt.ltd. mohali	
28.	Flexible Faucet	M/s Hindustan fibre ltd vadodara	
29.	Lotah Filler Tap	M/s metco delhi	
30.	Bib cock	M/s KPR ind. mohali	
31.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
32.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
33.	Seat & Berth	M/s AAR KAY foam CDG	
34.	Luggage Rack	M/S Rail tech pvt.ltd. KXH	
35.	Folding Table	M/S Techo ind. ALD	

  
SSE/QC/MCF/RBL  
वरिष्ठ अनुष्ठानिक अभियंता

गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)



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13. MODIFICATION (IF ANY) : NIL

14. DEVIATION (IF ANY) : NIL

15. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT	REFERENCE & PERIOD OF TRIAL
			Frequency	

## 16. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, etc. ( items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier.

### NOTE:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4,para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate )Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

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

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गुणवत्ता विभाग  
रेडिओका, रायबरेली (लालगंज)

श्री. एस. पाण्डेय  
सहायक यांत्रिक अभियंता / गुणवत्ता  
Modern Coach Factory, Raebareli

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





Modern Coach Factory Raebareli  
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

TYPE COACH		LWRRM	SHELL/COACH NO	178665/C
RAILWAY		WR	DATE OF DESPATCH	
Sr no	Description of tests			Remarks
1.0	REFERENCE SPECIFICATION : L 446			
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.			
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01			
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.			
	Observed status : HEALTHY			
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE		OK
3.1	Fresh Air	14.60 Cub mtr/min		OK
3.2	Return Air	32.12 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	54.13 Cub mtr/min		OK
4.0	<b>PRE COOLING TEST: Max 01 hr.</b> 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			OK
5.0	<b>PULL DOWN TEST: Max 02 hrs.</b> Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition.  Not done due to Ambient temp. below 22°C			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 OVER	OK
10.0	LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGERS	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	HYGROSTAT	OK
16.4	CONTROL CIRCUIT	OK
16.5	POWER CIRCUIT	OK
16.6	ALTERNATER EARTH LEAKAGE RELAY	OK
16.7	FEEDER EARTH LEAKAGE RELAY	OK
16.8	UNDER VOLTAGE RELAY	OK
16.9	OVER VOLTAGE RELAY	OK
16.10	BUS COUPLAR	OK
16.11	FEEDER CONTACTOR	OK
16.12	SMOKE TEST	OK
17.0	REFRIGERANT USED <b>R 407C</b>	OK

  
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## ROLLING STOCK CERTIFICATE OF LHB/ POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : <b>AMIT</b> Sr no of RMPU (PP side): <b>2180-J</b> Sr no of Microprocessor: <b>AE-1702918</b>	RDSO/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Power and Control Panel for LHB Power car Make: <b>SSK</b> Sr no : <b>2017-04-005</b>	EDTS-103 ,REV-c	<b>01</b>
04.	Switch board cabinet Make : <b>AMIT</b> Sr no : <b>AE/SBP-53</b>	EDTS 104, REV-a	<b>01</b>
05.	Pump equipment with PLC controller & pump box Make: <b>KALSI</b> Sr no PA- <b>6469/10/17</b> Sr no.1- <b>284604</b> Sr no.2- <b>284605</b> Sr no.CPA- <b>6422/10/2017</b>	EDTS 186,Rev-a, Am- 2	<b>01</b>
06.	Lavatory light fitting assly Make : <b>DR AUTO</b>	LW 76001,Alt nil	<b>01</b>
07.	Passenger alarm coach indication light Make : <b>DR AUTO</b>	LW 76005,Alt-e	<b>02</b>
08.	Razor socket for WC 110/240V Make : <b>SSK</b>	EDML 047 ,Rev nil	<b>01</b>
09.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01</b>
10.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a`	<b>01</b>
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame	EDML 047,Rev- C, Item 1.	<b>02</b>
12.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,TYPE -II	<b>01 set</b>
13.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : <b>AMARA RAJA</b> Lug date : <b>08/17</b>	EDTS 129,Rev nil	<b>01 set</b>

  
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## ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: <b>MICROTEX</b> Lug date: <b>10/17</b> (B) Make: <b>MICROTEX</b> Lug date: <b>12/17</b>		<b>02 sets</b>
15.	Battery box for LHB coaches. MAKE- <b>HITECH</b>	1 10113.0.76.700.005 w/o item 5,22,23,26 & 27.ALT C	<b>01</b>
16.	Battery fuse box +ve Make : <b>AECO</b>	LW 71001,Alt-F	<b>01</b>
17.	Battery fuse box -ve Make : <b>ISG</b>	LW 71002,Alt-F	<b>01</b>
18.	60KVA TFR Make- <b>PANTRONICS</b> Sr no:1. <b>PAN-160111783</b> Make- <b>PANTRONICS</b> Sr no:2. <b>PAN-160111798</b> Make- <b>PANTRONICS</b> Sr no:3. <b>PAN-160111789</b>	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	<b>03</b>
19.	Capacitor Bank Make: <b>STANDERD</b>	EDML-130 Rev-1,Corr-1	<b>01</b>
20.	Emergency Battery Charger Make: 1. <b>WAVES</b> 2. <b>BHASIN</b> <b>1.172693 2.09174258</b>	EDTS-163 REV-C, corg-2&3	<b>02</b>
21.	Wheel set earthing equipment. Make : <b>MLI</b>	EDTS101,REV-C,AM-1	<b>02</b>
22.	Wheel Slide Protection System (WSP) Make- <b>ESCORTS</b> Sr no : <b>16023105420021</b>	MDTS 077 REV-2	<b>01 set</b>
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	<b>02</b>
23.a1	Sr no of Alternator "A" Make- <b>GREAVES</b> Sr No- <b>3309121711247</b>	EDTS 102, Rev`c'	<b>01</b>
23.a2	Sr no of Diesel Engine "A" Make- <b>GREAVES</b> Sr no- <b>1309121711247</b>	EDTS 102, Rev`c'	<b>01</b>

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## ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- <b>GREAVES</b> Sr no : <b>3309121711248</b>	EDTS 102, Rev`c'	<b>01</b>
23.b 2	Sr no of Diesel Engine "B" Make- <b>GREAVES</b> Sr no : <b>1309121711248</b>	EDTS 102,	<b>01</b>
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make: <b>AECO</b> Sr no- <b>2017-09-93</b>	EDTS 110,REV-NIL	<b>01</b>
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: <b>KERLOSKAR</b> Sl no: <b>DRT-41/XV-1043</b> 2.Make: <b>KERLOSKAR</b> Sl no: <b>DRT-41/XV-1047</b>	EDTS 110,Rev nil	<b>01</b>
26.	Radiator Fan Motor for Diesel Engine -"A" Make: <b>ABB</b> SL no: <b>3GIJ17280001469616</b>	EDTS 104, Rev`a'	<b>01</b>
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- <b>NEC</b> Sr no- <b>2017081833</b>	EDTS-104,REV-A	<b>01</b>
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: <b>KERLOSKAR</b> Sl no: <b>DRT-41/XV-1154</b> 2.Sl no: <b>DRT-41/XV-1041</b>	EDTS 110,Rev nil	<b>01</b>
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- <b>AECO</b> Sr no- <b>2017-09-94</b>	EDTS 110,REV-NIL	<b>01</b>

Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





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REV NO: 00

DATE:11.09.2017

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## ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: <b>ABB</b> SL no: <b>3GIJ17390001495951</b>	EDTS 104, Rev`a'	<b>01</b>
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- <b>NEC</b> Sr no- <b>2017081855</b>	EDTS-104,REV-A	<b>01</b>
32..	Starter Battery Charging Control Panel -A & B Make : <b>ISG</b> Sr no: <b>SBC-MCF-16-09-0008</b>	EDTS 116,Rev nil	<b>01</b>
33.	Feeder Junction box. Make: <b>AECO</b>	EDML 020, Rev`a'.	<b>01 set</b>
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- <b>INTEG</b>	EDTS-331, TYPE-2	<b>01</b>
35.	Lights Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	<b>20</b>
36.	Smoke Detector Unit. Make: <b>AG RAIL</b> Sr no: <b>500275</b>	EDTS 087,Rev`a',Type II	<b>01</b>
37.	Provision of Tail light switch 2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: <b>SSK</b>	As per Cat no. SG 16	<b>02</b>
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): <b>MLI</b> 2.(PP): <b>MLI</b>	EDTS 105, Rev`c'.	<b>01 set</b>
39.	Connector for External supply socket. Make: <b>MV</b>	EDML 013, Rev nil.	<b>02</b>

<b>SSE/EL/QC</b>	<b>SEE(P)/MCF/RBL/ DYCEE/P&amp;P/MCF/RBL</b>

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