

LPc-82



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/ 18-19/695

RLY	N	R	-	Coach No.	1	8	3	8	6	4	/	C	DATE OF DISPATCH	2	6	-	1	0	-	1	8
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DISPATCH TO	Sr.DME/CHG/UMB	Type	L	W	L	R	R	M	Shell No.	8	8	0	4	3	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2017/M(C)/142/2 Dated.- 20-03-2018
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) 1102(NPPE) 2) 1104 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S E.c.blades & tool pvt. Ltd CDG 270
		Complete	NPP END M/S E.c.blades & tool pvt. Ltd CDG 270
			M/S E.c.blades & tool pvt. Ltd CDG 270
2.	Lav.side wall	MCF/RBL (CONTRACTOR V4U)	LAV.1 105 LAV.2 106
		MCF/RBL (CONTRACTOR V4U)	LAV.3 107 LAV.4 108
3.	Side wall	LH SIDE	MCF/RBL 28
		RH SIDE	MCF/RBL 28
4.	End wall	PP END	M/S E.c.blades & tool pvt. Ltd CDG -
		NPP END	M/S AMIT ENG -
5.	Roof	M/S DTL ancillaries ltd pune	48
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 1079 NPP END 1097
7.	Buffers	M/S RANEKA INDS.LTD. DHAR	N.A NPP END 88043

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 ² . Max. pressure in BC All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	08sec. 3.0 kg/cm ² OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1kg/cm ² /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-NEROLAC	SUPPLY & APPLY	77/87
2.	Insulation			Satisfactory	

वरिष्ठ अभियंता
MCF/RBL



MODERN COACH FACTORY, RAEBARELI

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DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/695

Coach No. 1 8 3 8 6 4 / C - DATE OF DISPATCH 2 6 . 1 0 . 1 8

RLY N R - Type L W L R R M Shell No. 8 8 0 4 3 - - - - - - - -

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180982				180981			
Bogie Type	FIAT				FIAT			
Frame no.	SCI-2004				AML-019			
Bolster no.	APEX-347				A[PEX-348			
Axle No	18E - 8312 RWF		18E -8513 RWF		18 E 8422 RWF		18 E - 8690 RWF	
Wheel Dia	917.557	917.611	917.551	917.630	917.413	917.532	917.529	917.552
Wheel Disc No	TZ07-18 33842-8RG8	TZ07-18 35662-8RH4	TZ07-18 35910-8QN5	TZ07-18 35691-8RG2	TZ06-18 30099-8QM5	TZ07-18 33824-8QP3	TZ07-18 33811-8QP3	TZ07-18 35851-8RG3
R.B. Nos.	05-18 28606	05-18 40287	05-18 40112	05-18 39373	05-18 40290	05-18 38873	05-18 39370	05-18 12141
CT R B Make	SKF		SKF		SKF		SKF	

9. 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.	RSK08-18F16- S32-16Y-357	CMGBD03-18- 837-22-107	RSK08-18F16- S32-16Y-301	CMGBD03-18- 837-22-115	CMAFJ12-15- 7146	RSK01-18 F15N71-15Y-62	CMFSK07-17F14- F18-014Y-299	RSK01-18F15-N71- 15Y-175
Compressed Ht. at Tested Load	511	471	513	471	508	468	506	468
Alignment deviation (mm)	15	7	17	7	15	34	13	32

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	GEREP	1670,1896	1666,1641
2.	Primary outer Spring	CMGBD	02-18-142-21(64,193,248,168)	02-18-142-21(217,212,210,206)
3.	Primary Inner Spring	YR	12-17 (1.92-789,2.30-758,1.88-757,6.76-766)	12-17 (4.23-762,3.05-773,2.41-775,3.04-761)
4.	Primary Damper	KNORR	05-18(19804,19860,19857,19856,)	05-18(19797,19865,19809,19861)
5.	Secondary Damper	KNORR	03-18 4756,05-18 4755	05-18 (4748,4750)
6.	Lateral Damper	KNORR	03-18 1939	03-18 1941
7.	Brake Cylinder	KBI	A(6339,5933,5895,6340)K29	A(6328,2286,2281,6326)K29
8.	Brake Caliper	KBI	A(1126,0549,550,1127)-29	A(1125,2502,5501,1124)-29
9.	Brake Disc	KBI	24158714 0025-37/18,24158714 0042-37/18 24158715 0017-37/18,24158714 0048-37/18	24158713 0042-36/18,24158713 0041-36/18 24158715 0016-37/18,24158714 0059-37/18
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	110918-2,120918-1,RVE,110918-2	120918-1,090918-3,100918-2,100918-1
22.	Control Arm Lower	RVE	040918-4,070918-2,040918-1,040918-1	150918-1,060918-1,091918-1,150918-1

Signature of SSE/Bogie/QC



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DISPATCH TO	Sr.DME/CHG/UMB	Type	L	W	L	R	R	M	Shell No.	8	8	0	4	3	-	2	0	1	8	-	1	9

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/s KBI Faridabad. New Delhi	0150 37/18
2.	Distribution Valve	M/s KBI Faridabad. New Delhi	2018H6080
3.	Hand Brake Equipment	M/S- PALSTO POWER P.B.	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD. FARIDABAD	
5.	Floor Board	M/S- TWPL, MUMBAI	
6.	PVC	M/S- RESPONSIVE POLYFILM, NDLS	
7.	UIC Vestibule (NPPE)	M/s-KRP .kolkata	
8.	Gangway Bridge Mounting (NPPE)	M/S- COMPETANT ENGG.JALANDHAR	
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 Birkan engg.pvt.ltd.GAZIABAD	
12.	Lavatory/Hopper Window	M/S- AIKON IND.SALON H.P	
13.	Roof Ceiling	M/S-GANDHI SAFE & ALLIED, JALANDHAR (GUARD ROOM) RAIL EXPORT,JUC (CREW ROM)	
14.	Generator Room Ceiling	M/S- RAIL TECH PVT.LTD. KXH	
15.	RMPU	M/s- SIDWAIL, FARIDABAD	
16.	AC Trough	M/s- CMT MECHANISED SYSTEM, VADODARA	
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	M/S- JBM, FARIDABAD	
20.	Vestibule Door(NPPE)	M/S- JBM, FARIDABAD	
21.	Crew/Gen. Room Door	M/S- KALSI, LDH	
22.	Crew/Guard Room Door	M/S- KALSI, LDH	
23.	Bio Tank (01 No Lav.)	M/S- AMIT ENGG. MOHALI	
24.	Auxiliary Water Tank(1x30l)	M/S- AMIT ENGG. MOHALI	
25.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENGG. BADDI	
26.	Fuel Tank (2x1500 L)	M/s Shivalic fastners pvt.ltd. mohali	
27.	Flexible Faucet	M/S- HINDUSTAN FIBRE LTD. VADODARA	
28.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE LTD VADODARA	
29.	Bib Cock	M/S- AGMECO INDIA LTD.	
30.	Composite Modular Toilet	M/S- HINDUSTAN FIBRE LTD VADODARA	
31.	Lavatory Doors	M/S- KALSI, LDH	
32.	Seat & Berth	M/S- GANDHI SAFE & ALLIED, JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S- TECHNO IND. ALD	

Selma

SSE/QC/MCF/RBL

वारं ०५/१०/१८ अभियंता

गुणवत्ता विभाग

रेडि०का०, रायबरेली (लालगांज)



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DISPATCH TO	Sr.DME/CHG/UMB	Type	L	W	L	R	R	M	Shell No.	8	8	0	4	3	-	2	0	1	8	-	1	9

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, clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier.

NOTE:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@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.

 वरिष्ठ अंशु अफियंता SSE/QC/MCF/RBL रीडिङका, रायबरेली (लालगंज)	 सहायक अभियंता/गुणवत्ता-1 Assistant Mechanical Engineer / Quality-1 आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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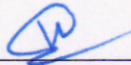
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR				
TYPE COACH		LWRRM	SHELL/COACH NO	183864/C
RAILWAY		NR	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	11.66 Cub mtr/min		OK
3.2	Return Air	36.62 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	59.11 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


 Senior Section Engineer
 Quality control / Electrical
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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 R 407C	OK


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
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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 : SIDWAL Sr no of RMPU (PP side): 18J 1849 Sr no of Microprocessor: 18.01.1362-SIDWAL	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car, Make: TRINITRON Sr no : TCS/RBL/3406/LHB-006	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : SSK Sr no : 2018-03-004	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2018/9/059 Sr no.1- 18070253 Sr no.2- 18070214 Sr no.CPA- 2018/09/126	EDTS 186,Rev-a, Am- 2	01
06.	Lavatory light fitting assly Make : DR AUTO	LW 76001,Alt nil	01
07.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02
08.	Razor socket for WC 110/240V Make : SSK	EDML 047 ,Rev nil	01
09.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
10.	Terminal connector Make : WAGO	EDML 037,Rev`a`	01
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev- C, Item 1.	02
12.	PA system for LHB coaches Make : AHUJA	EDTS 173,TYPE -II	01 set
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 : HBL Lug date : 02/18	EDTS 129,Rev nil	01 set


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Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: CELTEK Lug date: 07/18 (B) Make: CELTEK Lug date: 07/18		02 sets
15.	Battery box for LHB coaches. MAKE- HITECH	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
18.	60KVA TFR Make- VIMAL Sr no:1. VTC-3089-LHB-6707 Make- VIMAL Sr no:2. VTC-3089-LHB-6364 Make- VIMAL Sr no:3. VTC-3089-LHB-6653	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: S.INTERNATIONAL SL.no 411-04/18	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- BHASIN Sr no:1. 9181465 Make- BHASIN Sr no:2. 9181467	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES. CHANDA & CHANDA ENGG.	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- KNORR Sr no : 0118115082	MDTS 077 REV-2	01 set
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c'	02
23.a1	Sr no of Alternator "A" Make- NIDEC Sr No- LED3L 918F 227790	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- KIRLOSKAR Sr no- DUO.9019/1820024	EDTS 102, Rev`c'	01

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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- NIDEC Sr No- LED3L 918G 0067	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- KIRLOSKAR Sr no : DUO.9019/1820027	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- INDORAIL Sr no- 2018060189	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: ABB Sl no: 1580876 2.Make: ABB Sl no: 1580874	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3G1J18250001596385	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- NEC Sr no- 2018071937	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: ABB Sl no: 1584563 2.Sl no 1580873	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- INDORAIL Sr no- 2018060182	EDTS 110,REV-NIL	01


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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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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: ABB Sr no- 3G1J18250001596968	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- NEC Sr no- 2018072002	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : INDORAIL Sr no: 2018050099	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: AECO	EDML 020, Rev`a'.	01 set
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- INTEG	EDTS-331, TYPE-2	01
35.	Lights Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	20
36.	Smoke Detector Unit. Make: AG RAIL Sr no: 500852	EDTS 087,Rev`a',Type II	01
37.	Provision of Tail light switch2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: SSK	As per Cat no. SG 16	02
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): S.INTERNATIONAL 2.(PP): S.INTERNATIONAL	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: MV	EDML 013, Rev nil.	02

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

वरिष्ठ विद्युत अभियन्ता

रेल कोच फैक्टरी रायबरेली