



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF

8002/PC

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/19-20/774

RLY	N	W	R	Coach No.	1	9	6	4	6	4	/	C	DATE OF DISPATCH	2	3	-	0	9	-	1	9
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DISPATCH TO	Sr.DME/C&W/JP	Type	L	W	L	R	R	M	Shell No.	9	8	0	3	2	FUR.NO.	LPC-214
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1. Railway Board's Order No. : 2019/M(C)/142/2 Dated: - 03-06-2019
2. Tare Weight of Coach : 53.2 Tones
3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones
4. Special feature: 1- Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

2- RFID(Radio frequency identification) fitted for traceability of coach

5. SHELL LEADING DIMENSIONS:

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail Level	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1102 (NPPE) 2) 1103 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- OMAX AUTO LTD	43
		NPP END M/S- OMAX AUTO LTD	43
	Complete	M/S- OMAX AUTO LTD	43
2.	Lav. side wall	M/S-DTL PUNE	LAV.1 --- LAV.2 ---
		M/S-DTL PUNE	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE M/S-DTL PUNE	07
		RH SIDE M/S-DTL PUNE	07
4.	End wall	PP END M/S-RSM MOHALI	---
		NPP END M/S-PD STEEL PANCHKULA	---
5.	Roof	M/s-TI	81
6.	Centre Buffer Coupler	M/S-ESCORT	PP END 9769 NPP END 9746
7.	Buffers	M/S- RANEKA INDS.LTD. DHAR	N.A NPP END --

7. 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	07 sec. 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	1.Hand Bk. indicator should be red	OK
		2.Release hand brake	2. Hand Bk. indicator should be green	OK

8. 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

9. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE	DATE OF COMPLETION
1.	Paint	P.U	M/S-VIBGYOR	SUPPLY & APPLY	90/89	24.06.19
2.	Insulation			Satisfactory		

परिष्कार अभियंता
SSE/QC/MCF/RBL
रेलवे कारखाना, रायबरेली (लाल गंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

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9. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	195002				195001			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-1017				ECBT-989			
Bolster no.	MCF/RBL-2504				MCF/RBL-2750			
Axle No	19 P- 7815 RWF		19 P - 7046 RWF		19 R- 6802 RWF		19 P - 6704 RWF	
Wheel Dia	917.535	917.509	917.501	917.52	917.312	917.399	917.513	917.461
Wheel Disc No	TZ 05-19 47559-90J5	TZ 05-19 46189-9PE8	TZ 05-19 45561-90J5	TZ 05-19 45563-9PD1	TZ 05-19 47441-9PS9	TZ 05-19 48670-9PE3	TZ 05-19 42257-9PJ0	TZ 05-19 48640-9PE9
R.B. Nos.	09-18-25102	09-18-25602	04-18-24147	09-18-26448	09-18-25101	08-18-22364	09-18-27402	08-18-22503
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.	CMFSK04-19- 8835-550-35	CMGBD07-19- F17-395-22	CMFSK04-19- 8835-550-30	CMGBD07-19- F17-395-37	CMFSK06-19- 7148-050-50	CMGBD04-19- 5120-563-6	CMFSK06-19- 7148-050-12	CMFSK04-19- 5120-563-12
Compressed Ht. at Tested Load	513	471	515	471	509.5	467	517	464
Alignment deviation (mm)	9	26	9	25	13	10	13	10

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	12254,12239	12248,12244
2.	Primary outer Spring	CMFSK	12-18 7142-509(120,114,97,108)	12-18 7142-509(92,83,82,132)
3.	Primary Inner Spring	CMFSK	01-19 7143-500 (355,360,451,646)	01-19 7143-500 (436,768,785,894)
4.	Primary Damper	KONI	03-19 (08161,01961,04892,02914)	03-19 (01975,04534,00349,03437)
5.	Secondary Damper	IAI	01-19 (238068,238009)	01-19 (238065,237973)
6.	Lateral Damper	IAI	02-19 241373	02-19 241523
7.	Brake Cylinder	KBI	B(6537,6563,5541,6603)K-29	B(6600,3519270017,3519270014,6597)K-29
8.	Brake Caliper	KBI	B(2060,1056,1055,2061)K-29	B(2063, 351928019,3519280022,202729)K-29
9.	Brake Disc	KBI	24172299 0067-04/19,24172298 0041-04/19 24173200 0066-04/19,24172299 0082-04/19	24173125 0032-07/19,24173125 0033-07/19 24173458 0001-09/19,24173129 0076-09/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	ARYAN		
16.	Secondary Rubber Pad	PPI		
17.	Rubber Spring	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR, SARITA/BASANT		
20.	Fork make	EMSON		
21.	Control Arm Upper	CC	19E191B,19A206A,19E8B,19E12	19E65,19A72,19A1868,19A22B
22.	Control Arm Lower	CC	129,90,40,12	193,90,70,218
23.	Phonic Wheel	KNORR	K-06-19	K-06-19

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13. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	
2.	Distribution Valve	M/S- KBI, FARIDABAD	0294-28/19
3.	Hand Brake Equipment	M/S-VAANI PRECISION INDS,	2019 G 8164
4.	Foot Step	M/S- SUPER SPARK PVT.LTD. FARIDABAD	
5.	Floor Board	M/s- ORIENTAL PVT.LTD. MUMBAI	
6.	PVC	M/S- RESPONSIVE POLYFILM, GZB	
7.	UIC Vestibule (NPPE)	M/S-KIRAN RUBBER PRODUCT, PUNE	
8.	Gangway Bridge Mounting (NPPE)	M/S- COMPETANT ENG. JUC	
9.	AL. Chequer Plate/Sheet	M/S- RAIL TECH, KXH	
10.	Automatic Fire Detection & Suppression System	M/S- SANROK ENT. FARIDABAD	
11.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
12.	Lavatory/Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
13.	Roof Ceiling	M/S- RAIL EXP JUC	
14.	Generator Room Ceiling	M/S- RAIL FAB KXH	
15.	RMPU	M/S- LEE INDS	
16.	AC Trough	M/S- C.M.T. VADODARA	
17.	Luggage Sliding Door	M/s- GURU NANAK IND. PVT.LTD. PB	
18.	Hatch Door	M/s- LOCOMOTIVE KXH	
19.	Body Side Doors	M/S- SUKATA INDS CDG	
20.	Vestibule Door(NPPE)	M/S- KALSI LDH	
21.	Crew/Gen. Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Crew/Guard Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Bio Tank (01 No Lav.)	M/S- P.D. STEEL	
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- P.D. STEEL	
27.	Health Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
28.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
29.	Bib Cock	M/s- AGMECO (P) LTD. UK	
30.	Lavatory Doors	M/S-KALSI LUDHIYANA	
31.	Seat & Berth	M/S- AMIRCHAND JALANDHAR	
32.	Luggage Rack	M/S- RAIL FAB, KXH	
33.	Folding Table	M/S-RAIL EXPORT, JALANDHAR	
34.	RFID	M/s- TECH SOLUTION PVT LTD	

Sr.-106103-106108

SDE/OC/MCF/RBL

गुणवत्ता विभाग
रेलवे, रायबरेली (लाबगंज)





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14. MODIFICATION (IF ANY) : NIL

15. DEVIATION (IF ANY) : NIL

16. ITEM FITTED ON THE COACH ON TRIAL: NIL

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

17. 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.

SSE/QC/MCF/RBL	SME/QC/MCF/RBL	Dy.COM/MCF/RBL

रेडि०का०, रायबरेली (लालगंज)

Senior Mechanical Engineer/Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory Raebareli

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





Modern Coach Factory Raebareli
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LPC-214

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ROLLING STOCK CERTIFICATE OF LHB POWER CAR			
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR			
TYPE COACH		LWRRM	SHELL/COACH NO
RAILWAY		NWR	196464/C
		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	14.50 Cub mtr/min	OK
3.2	Return Air	27.23 Cub mtr/min	OK
3.3	Exhaust Air	NIL Cub mtr/min	OK
3.4	Conditioned Air	58.93 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 :21.8°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 .		-

Senior Section Engineer
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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	
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 :	
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	OK

R 407C

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ROLLING STOCK CERTIFICATE OF LHB/ POWER CAR

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : DAULAT RAM Sr no of RMPU (PP side): 19C/RMPU/05/129 Sr no of Microprocessor: SA 19.04.579	RDSO/pe/spes/ac/0061/rev-1/2005	01
02.	Power and Control Panel for LHB Power car, Make: ISG Sr no : PCP-MCF-19-07-0013	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-894	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2019/08/0007 Sr no.1- 19080373 Sr no.2- 19080370 Sr no.CPA- 2019/08/016-DR AUTO	EDTS 186,Rev-a, Am- 2	01
06.	Lavatory light fitting assly Make : RT VISION	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	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 : AMARA RAJA Lug date : 01/18	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: 07/19 (B) Make: CELTEK Lug date: 07/19		02 sets
15.	Battery box for LHB coaches. MAKE- ANKUR ENGG.	1 10113.0.76.700.005 w/o item 5,22,23,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : ABROL	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : ISGPL	LW 71002,Alt-F	01
18.	60KVA TFR Make- VIMAL Sr no:2. VTC-R-3089-LHB-1466 Make- VIMAL Sr no:1. VTC-R-3089-LHB-1453 Make- VIMAL Sr no:1. VTC-R-3089-LHB-1455	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: ISG SL.no. CB-MCF-19-07-0165	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- BHASIN Sr no:1. 07193954 Make- M.B & COMPANY Sr no:2. 201908346	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthing equipment. Make : PRIME ELECT.	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- KNORR Sr no : 0119201938	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- STAMFORD Sr No- N19G 304775	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- CUMMINS Sr no- 25448438	EDTS 102, Rev`c'	01

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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- STAMFORD Sr No- N19G 314949	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- CUMMINS Sr no : 25448822	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- BHASIN Sr no- 04192638/2	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: ABB Sl no: 1703500 2.Make: ABB Sl no: 1703499	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3GIJ1900001693856	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- ISG Sr no- CPRF-MCF-19-07-0015	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: ABB Sl no: 1703485 2.Sl no: 1700066	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- BHASIN Sr no- 04192638/1	EDTS 110,REV-NIL	01

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 11.09.2017

ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

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Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: ABB Sr no- 3GIJ19110001697561	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- ISG Sr no- CPRF-MCF-19-07-0015	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : WAVES Sr no: WSBCH 17543	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: ISG	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 : RT VISION	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	20
36.	Smoke Detector Unit. Make: INTEG Sr no: 201905109	EDTS 087,Rev`a',Type II	01
37.	Provision of Tail light switch 2P/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): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: JAI BALAJI	EDML 013, Rev nil.	02

SSE/EL/QC	AWM(ELECT.)/MCF/RBL
वरिष्ठ अनुभाग अभियन्ता	SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आपरेटिंग/लागू/रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

वरिष्ठ विद्युत अभियन्ता
रेल कोच फैक्टरी, रायबरेली, लखनऊ
Sr. Electrical Engineer / RCF / RBL / Lucknow

