



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/ 18-19/235

Coach No.	1	8	8	5	3	/	C	-	-	DATE OF DISPATCH	2	9	-	0	6	-	1	8
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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	4	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 Dated. 16.04.2018
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) 1100 (NPPE) 2) 1105(PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	PP END	240	NPP END	240
1.	Under frame	M/S E.c.blades & tool pvt. Ltd CDG	PP END	240	NPP END	240
	Front Part	M/S E.c.blades & tool pvt. Ltd CDG				
	Complete	M/S E.c.blades & tool pvt. Ltd CDG				
2.	Side wall	M/S MCF/RBL	RH	88014	LH	88014
3.	End wall	M/S E.c.blades & tool pvt. Ltd CDG	PP END	88014	NPP END	88014
		M/S Omax auto gurgaon HR				
4.	Roof	M/S DTL ancillaries ltd pune				
5.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END	3504	NPP END	3581
6.	Buffers	M/S Raneka ind.ltd.	N.A		NPP END	88014

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	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 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) SUPPLY & APPLY	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-Nerolac		75/88
2.	Insulation			Satisfactory	

[Signature]
SSE/QC/MCF/RBL

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रेडिंक, रायबरेली



MODERN COACH FACTORY, RAEBARELI

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DOC NO.: MCF/RBL/QMF 8002

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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	4	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side											
Bogie No	180482				180481											
Bogie Type	FIAT				FIAT											
Frame no.	ECBT-622				AML-030											
Bolster no.	MCF/RBL-1416				SFPL-348											
Axle No	17W	-	8706	RWF	18 F	-	2718	RWF	18 F	-	2850	RWF	17 Y	-	1553	RWF
Wheel Dia	917.564		917.502		917.579		917.482		917.551		917.466		917.55		917.494	
Wheel Disc No	TZ03-17 07917-70J8		TZ03-17 07916-70J8		TZ03-17 01684-7NL4		TZ05-17 13396-70L6		TZ05-17 15400-70L6		TZ05-17 13399-70L6		TZ03-17 05280-70K9		TZ03-17 01395-70H8	
R.B. Nos.	11-17 21542		01-18 26540		01-18 27624		01-18 26704		11-17 18473		01-18 26533		11-17 22276		01-18 26702	
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.	CMGBD04-18-836-61-101	CMAFJ02-18-5118-44	CMGBD04-18-836-45-103	CMAFJ02-18-8837-1	CMGBD03-18-146-25-60	CMGBD03-18-145-01-105	CMGBD03-18-146-25-57	CMGBD01-18-145-01-118
Compressed Ht. at Tested Load	515	471	515	469	512	467	512	468
Alignment deviation (mm)	9	20	11	20	11	9	10	8

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KB	6073,6077	6075,6010
2.	Primary outer Spring	CVFSK	10-17 7142-309 (61,60,66,56)	10-17 7142-309 (101,113,94,74)
3.	Primary Inner Spring	CMFSK	04-18-7143-308(549,140,270,68)	04-18-7143-408(505,271,139,9)
4.	Primary Damper	KNORR	12-17 (14022,14250,15765,13417)	12-17 (14231,13347,13024,15773)
5.	Secondary Damper	IAI	01-18 (202232,202436)	03-18(202421,202296)
6.	Lateral Damper	IAI	01-18 198500	01-18 196054
7.	Brake Cylinder	KBI	A(1113,142,127,1109)K29	A1110K29,L7560-35,L7557-35,A1126K29
8.	Brake Caliper	KBI	(0721,0370,0391,0797)-29	0800-29,0010-29,0009-29,0796-29
9.	Brake Disc	FAV	05-18(4647,4648,4761,4693)D133561-300	05-18(4759,4673,4758,4646)D133561-300
10.	Ball Joint Control Arm	MB		
11.	Lateral Bump Stop	AR/BONY		
12.	Traction Centre make	EMSON/SARITA		
13.	Traction lever make	SF		
14.	Ball joint traction lever	S-BLOC		
15.	Ball joint traction centre	MTC		
16.	Secondary Rubber Pad	TECSPAK		
17.	Rubber Spring	GMT		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/ S-BLOC		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	050518-2,240518-2,020518-1,020518-1	050518-2, 050518-2,280418-2, 050518-2
22.	Control Arm Lower	RVE	010518-2,300418-2,300418-2,RVE	010518-2,030518-2,RVE,300418-2

Signature of SSE/Bogie/QC



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RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	4	-	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	0079 14/18
2.	Distribution valve	M/s KBI Faridabad. New Delhi	2018D4745
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 Premier polyfilm, New Delhi	
7.	UIC Vestibule (NPPE)	M/s-ELASTOMER MUMBAI	
8.	Gangway bridge mounting (NPPE)	M/s Mahaveer matel works Kapurthala	
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 AXSYS SULTION H.P	
12.	Lavatory/hopper Window	M/s Birkan engg.pvt.ltd.GAZIABAD	
13.	Roof Ceiling	M/s Amirchand engg. Jalandhar (guard room) & GANDHI SAFE & ALLIED Jalandhar(crew room)	
14.	Generator room ceiling	M/s RAIL TECH KXH	
15.	RMPU	M/s INTEC U.K	
16.	AC Trough	M/s Geepee guargao	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S LOGOMOTIVE LTD. Jalandhar	
19.	Body Side Doors	M/s JVR LDH	
20.	Vestibule Door(NPPE)	M/s JBM Faridabad	
21.	Crew/gen. room door	M/s JBM Faridabad	
22.	Crew/guard room door	M/s kalsi LDH	
23.	Bio Tank (01 No LAV.)	M/s RAIL FAB KXH	
24.	Auxiliary Water Tank(1x30L)	M/s RAIL TECH KXH	
25.	Under Slung Water Tank (1x450 L)	M/s Shivalic fastners pvt.ltd. mohali	
26.	Fuel tank (2x1500 L)	M/s GAURAV ASSOCIATE NDLS	
27.	Flexible Faucet	M/s Hindustan fibre ltd vadodara	
28.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
29.	Bib cock	M/s KALSI PUPMP JALANDHER	
30.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
31.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
32.	Seat & Berth	M/s GANDHI SAFE & ALLIED JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S OM IND, UTTRAKHAND	

[Signature]

SSE/QC/MCF/RBL

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गुणवत्ता विभाग

रेडिंकॉ, रायबरेली (लालगंज)



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Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 15 1521																									
Coach No.		1	8	8	5	3	/	C	-	-	DATE OF DISPATCH					2	9	-	0	6	-	1	8		
RLY	N	W	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	1	4	-	2	0	1	8	-	1	9
REMARKS (IF ANY)												NIL													

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 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 गुणवत्ता विभाग रेडि0का0, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक यंत्रिक अभियंता/ गुणवत्ता Assistant Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy. QC/MCF/RBL Joginder Singh उप मुख्य गुणवत्ता प्रबंधक Dy. Chief Quality Engineer 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

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR				
TYPE COACH		LWRRM	SHELL/COACH NO	18853/C
RAILWAY		NWR	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	14.58 Cub mtr/min		OK
3.2	Return Air	34.81 Cub mtr/min		OK
3.3	Exhaust Air	NIL Cub mtr/min		OK
3.4	Conditioned Air	58.81 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			OK


 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	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	OK

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU (PP side): 18D996T2 Sr no of Microprocessor: 18.01.1154 -SIDWAL	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car, Make: ISG Sr no : PCP-MCF-18-05-0006	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : SSK Sr no : 2018-03-005	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2018/03/089 Sr no.1- 18030033 Sr no.2- 18030055 Sr no.CPA- 2018/03/036	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 : AMARA RAJA Lug date : 05/18	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 & MICROTEX Lug date: 01/18 & 12/17 (B) Make: MICROTEX Lug date: 01/18		02 sets
15.	Battery box for LHB coaches. MAKE- TECHNO INDUSTRIES	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
18.	60KVA TFR Make- VIMAL Sr no:1. VTC-3089-LHB-5608 Make- AUTOMATIC Sr no:2. 3/18/T510483/158 Make- AUTOMATIC Sr no:3. 3/18/T510483/152	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: S.INTERTIONAL SL.no. 340-02/2018	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- BHASIN Sr no:1. 10174679 Make- BHASIN Sr no:2. 10174650	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthing equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- KNORR Sr no : 0118104902	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- GREAVES Sr No- 3309121803647	EDTS 102, Rev `c`	01
23.a2	Sr no of Diesel Engine "A" Make- GREAVES Sr no- 1309121803647	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- GREAVES Sr no : 3309121803611	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- GREAVES Sr no : 1309121803611	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- ISG Sr no- CPVF-MCF-17-09-0003	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: KIRLOSKAR Sl no: EML 271-68 2.Make: KIRLOSKAR Sl no: EML 271-41	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: GREAVES SL no: RCG 49516	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- NEC Sr no- 2017081877	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: KIRLOSKAR Sl no: EML 271-60 2.Sl no EML 271-46	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- ISG Sr no- CPVF-MCF-17-09-0003	EDTS 110,REV-NIL	01


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Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: GREAVES Sr no- RCG 49533	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- ABROL Sr no- 2017-07-089	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : ISG Sr no: SBC-MCF-17-05-0023	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: NEC	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: AG RAIL Sr no: 500296	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): PRIME ELECT. 2.(PP): PRIME ELECT.	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: MV	EDML 013, Rev nil.	02

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आपरेटिंग/लातगंज/रायबरेली S.S.E./Elect-QC/M.C.F./LLJ/RBL	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL वरिष्ठ विद्युत अभियन्ता रेल कोच फैक्टरी, रायबरेली, लखनऊ Sr. Electrical Engineer / RCF / RBL / Lucknow