



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/19-20/390

RLY	N	C	R	Coach No.	1	9	4	6	4	4	/	C	DATE OF DISPATCH	3	0	-	0	6	-	1	9
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DISPATCH TO	Sr. CDO/ALD	Type	L	W	L	R	R	M	Shell No.	9	8	0	2	0	FUR.NO.	LPC-204
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1. Railway Board's Order No. : 2019/M(C)/142/2 Dated: - 13-06-2019
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: - 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

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) 1095 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-BECL	05
	Front Part	NPP END M/S-BECL	05
	Complete	M/S-BECL	05
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	04/DTL
		RH SIDE M/s- DTL PUNE	04/DTL
4.	End wall	PP END M/s- RAIL TECH, KXH	---
		NPP END M/s- RAIL TECH, KXH	---
5.	Roof	M/s- TI	76
6.	Centre Buffer Coupler	M/S- SANROK, FARIDABAD	PP END T 1426 NPP END T 1423
7.	Buffers	M/S- RANEKA INDS.LTD. DHAR	N.A NPP END 98020

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	08 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

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-GS	SUPPLY & APPLY	77/89	05.06.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
रेडिओ, रायबरेली (लागूगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	190242				190241			
Bogie Type	FIAT				FIAT			
Frame no.	VS-1775				AML-142			
Bolster no.	MCF/RBL-2149				MCF/RBL-2220			
Axle No	18 J - 9129 RWF		19 M - 9795 RWF		18 J - 8301 RWF		19 M - 9966 RWF	
Wheel Dia	917.641	917.718	917.642	917.684	917.618	917.676	917.686	917.62
Wheel Disc No	TZ 12-18 19452-8WP3	TZ 11-18 11305-8WP7	TZ 12-18 16391-8WQ8	TZ 12-18 19532-8WS6	TZ 12-18 16389-8WQ8	TZ 12-18 19460-8WP3	TZ 12-18 19458-8WP3	TZ 12-18 12864-8WS1
R.B. Nos.	12-18 27262	01-19 34628	12-18 26502	01-19 34841	12-18 27279	12-18 26746	12-18 26671	01-19 34678
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

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.	CMAFJ11-18- L001-8836-13	CMAFJ03-18- 9837-54	CMAFJ11-18- L001-8836-11	CMAFJ03-18- 9837-58	CMRSK08-17- F14-R78-14A-019	CMRSK07-16-F15- N99-15Y-263	CMRSK08-17- F14-R78-14A-019	CMRSK01-18-F14 N99-15Y-540
Compressed Ht. at Tested Load	515	471	515	471	508	466	509	464
Alignment deviation (mm)	10	15	10	15	15	30	16	31

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	238657,239311	238608,239011
2.	Primary outer Spring	CMRSK	08-18 05Y (1504,1490,1467,1564)	08-18 05Y (1455,1477,1531,1462)
3.	Primary Inner Spring	CMGBD	03-19 143-07(135,113,511,489)	03-19 143-07(509,461,323,481)
4.	Primary Damper	KNORR	02-19 (55259,53420,55127,55128)	02-19 (54021,54027,54337,54352)
5.	Secondary Damper	KNORR	02-19 (17009,17218)	02-19 (17226,17225)
6.	Lateral Damper	IAI	02-19 241908	02-19 241614
7.	Brake Cylinder	KBI	B(4496,3294,3290,4519)K-29	(B4139K29,N3515-35,N3551-35,B4422K-29
8.	Brake Caliper	KBI	A(1855,0950,0951,1857)K-29	(A1856-29,M7024-35,M7026-35,A1858K-29
9.	Brake Disc	FAV	05-19 (3751,3752,3745,3475)D-133561-300	05-19 (3750,3749,3788,3787)D-133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	PPI		
16.	Secondary Rubber Pad	DUREL		
17.	Rubber Spring	AR		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	180219-1,20219-3,180219-1,190219-2	180219-3,200219-2,180219-3,RVE
22.	Control Arm Lower	RVE	250219-2,250219-2,260219-3,250219-3	260219-2,20219-3,250219-2,250219-1
23.	Phonic Wheel	KNORR	K-03-19	K-03-19

Signature of SSE/Bogie/QC





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13. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	0208 08/19
2.	Distribution Valve	M/S- KBI, FARIDABAD	2019 B 6846
3.	Hand Brake Equipment	M/S-PLASTO POWER SINGUR PUNJAB	
4.	Foot Step	M/S- SUPER SPARK PVT.LTD. FARIDABAD	
5.	Floor Board	M/s- ORIENTAL, MUMBAI	
6.	PVC	M/S- RESPONSIV POLYFILM, GZB	
7.	UIC Vestibule (NPPE)	M/S-KRP, MUMBAI	
8.	Gangway Bridge Mounting (NPPE)	M/S- COMPETANT ENG. JUC	
9.	AL. Chequer Plate/Sheet	M/S- RAILTECH, 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- AIKON TECH.SALON H.P	
13.	Roof Ceiling	M/S- GANDHI, JALANDHAR	
14.	Generator Room Ceiling	M/S- GAURAV ASSOCIAT, NDLS	
15.	RMPU	M/S- AMIT ENG. MOHALI	
16.	AC Trough	M/S- GEE PEE, GURGAON	
17.	Luggage Sliding Door	M/s- GURU.NANAK IND. PVT.LTD. PB	
18.	Hatch Door	M/s- RAIL TECH. KXH	
19.	Body Side Doors	M/S- JBM INDUSTRIES, FARIDABAD	
20.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
21.	Crew/Gen. Room Door	M/S- JBM INDUSTRIES, FARIDABAD	
22.	Crew/Guard Room Door	M/S- RADISH TECHNOLOGIES, ALIGARH	
23.	Bio Tank (01 No Lav.)	M/S- RAIL FAB	
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- SHIVALIK FASTNERS PVT.LTD. MOHALI	
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 INDIA LTD. U.K.	
30.	Modular Toilet	M/S- HINDUSTAN FIBRE GLASS WORKS, VADODARA	
31.	Lavatory Doors	M/S- JR INDUSTRIES JALANDHAR	
32.	Seat & Berth	M/S- AMIRCHAND, JALANDHAR	
33.	Luggage Rack	M/S- RAIL FAB, KXH	
34.	Folding Table	M/S-RAIL EXPORT, JALANDHAR	

वरिष्ठ अभियंता
SSE/QC/MCF/RBL
गुणवत्ता विभाग
रेडिओका, रायबरेली (लाबमंज)





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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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/OC/MCF/RBL रेल डिब्बा कारखाना, रायबरेली (लालगंज)	 SME/OC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	 Dy. CQM/MCF/RBL Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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LPC-204



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE: 11.09.2017

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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	194644/C
RAILWAY	NCR	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	9.82 Cub mtr/min	OK
3.2	Return Air	26.60 Cub mtr/min	OK
3.3	Exhaust Air	NIL Cub mtr/min	OK
3.4	Conditioned Air	63.50 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 : 21.0°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 .		

Senior Section Engineer
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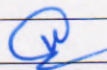
DATE:11.09.2017

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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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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU (PP side): 3650 D Sr no of Microprocessor: AE 17.02.889	RDSO/pe/spes/ac/0061/rev-1/2005	01
02.	Power and Control Panel for LHB Power car, Make: ISG Sr no : PCP-MCF-19-04-0061	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : ABROL Sr no : 377-12/18	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- 2019/05/18 Sr no.1- 19040179 Sr no.2- 19040271 Sr no.CPA- 2019/05/031-DR AUTO	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	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 : 09/18	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: 05/19 (B) Make: CELTEK Lug date: 05/19		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 : INDORAIL	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : INTEG	LW 71002,Alt-F	01
18.	60KVA TFR Make- VIMAL Sr no:2. VTC-R-3089-LHB-728 Make- VIMAL Sr no:1. VTC-R-3089-LHB-496 Make- VIMAL Sr no:1. VTC-R-3089-LHB-761	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-19-03-0053	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- M B & COMPANY Sr no:1. 2019/04/921 Make- M B & COMPANY Sr no:2. 2019/04/907	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthing equipment. Make : DARSHAN INTERPRISES	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- KNORR Sr no : 0119030835	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- N19D 1671132	EDTS 102, Rev`c'	01
23.a2	Sr no of Diesel Engine "A" Make- CUMMINS Sr no- 25446301	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- N19D 166864	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- COMMINS Sr no : 25446051	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- BHASIN Sr no- 041926391/2	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: ABB Sl no: 1703497 2.Make: ABB Sl no: 1700105	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3GIJ18500001659221	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- ABROL Sr no- 2019-03-184	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: ABB Sl no: 1703468 2.Sl no: 1703502	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- BHASIN Sr no- 041926391/1	EDTS 110,REV-NIL	01

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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REV NO: 00

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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- 3GIJ18500001659244	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- ABROL Sr no- 2019-03-158	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : BHASIN Sr no: 09180437	EDTS 116,Rev nil	01
33.	Feeder Junction box. Make: LIGHT	EDML 020, Rev`a'.	01 set
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- NIL	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: 1011	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): 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 SEE(P)/MCF/RBL

वरिष्ठ अनुभाग अभियन्ता
गुणवत्ता नियंत्रण
आपरेटिंगका/ लालगंज/ रायबरेली
S.S.E./Elect-QC/M.C.F./LLJ/RBL

सं कार्य प्रबन्धक/ विद्युत
आपरेटिंगका/ रायबरेली
A.W.M./Electrical/MCF/RBL