



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/701

RLY	N	W	R	-	Coach No.	1	9	6	2	7	5	/	C	DATE OF DISPATCH	1	0	-	0	9	-	1	9
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DISPATCH TO	Sr.DME/C&W/JP	Type	L	W	A	C	C	W	Shell No.	9	3	0	6	3	FUR.NO.	L2T(T)-81
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1. Railway Board's Order No. : 2019/M(C)/142/2, Dated- 03.06.2019
2. Tare Weight of Coach : 44.5 Tonnes
3. Carrying Capacity : (a) Seating: 52 (b) Sleeping: 52 (c) Luggage: NIL
4. **Special feature**

A- Due to fitment of L3T roof in L2T shell, more space available in transverse side.

B- Extend linen room to accommodate the space NPP end (width 270 mm)

C- Height (from floor level to ceiling) raised from 2250mm to 2510mm.

C1- Gap extend between transverse side upper berth and ceiling from 830mm to 894mm.

C2- Gap extend between transverse side lower berth and upper berth from 920mm to 1065mm.

C3- Gap extend between transverse side floor level to lower berth from 420mm to 465mm.

D- Provision of sliding cum sleeping berth. (MAKE- M/S- ANANYA RAIL COACH COMPONENTS IND.LLJ)

E- Choke of 5/6mm in DVside replace with 9 mm in both type(KBI&Faiveley) letter no. MC/LHB/Brake, Dated 27.09.2018

F- 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) 1099 (NPPE) 2) 1104 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S- SFPL	82
		NPP END M/S- SFPL	82
		Complete M/S- SFPL	82
2.	Lav. side wall	M/S- RAILTECH, KXH	LAV.1 - LAV.2 -
		M/S- RAILTECH, KXH	LAV.3 - LAV.4 -
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	152/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	152/02
4.	End wall	PP END M/S- RAILTECH, KXH	---
		NPP END M/S- OMAX REVARI	---
5.	Roof	M/S- DTL	166
6.	Centre Buffer Coupler	M/S- FRONTIER	PP END 21P2 NPP END 84P2

7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	<ul style="list-style-type: none"> ➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm². ➤ 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 @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK

8. 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	89/89	12.08.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

मुद्रित विभाग
रेडिओका, रायबरेली



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	196078				196077			
Bogie Type	FIAT				FIAT			
Frame no.	RAIL TECH-KPT-05				RAIL TECH-KPT-09			
Bolster no.	VS-457				VS-455			
Axle No	19 R-1027 RWF		19 P-2121 RWF		19 R - 1851 RWF		19 R - 1271 RWF	
Wheel Dia	917.581	917.591	917.663	917.72	917.701	917.7	917.703	917.703
Wheel Disc No	TZ 03-19 30155-9MG2	TZ 03-19 29329-9MK9	TZ 05-19 43544-9PH0	TZ 05-19 47820-9PE0	TZ 06-19 57652-90I9	TZ 06-19 53602-9PD3	TZ 06-19 53595-9PD3	TZ 06-19 53192-9PG0
R.B. Nos.	07-18 41904	02-18 16495	07-18 41451	02-18 15826	05-18 28376	05-18 40912	04-18 24822	07-18 41444
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.	CMRSK03-19-F17-N73-69	CMFSK05-18-8513-007-484	CMRSK03-19-F17-N73-38	CMFSK05-18-8513-007-332	CMFSK05-18-F16-R02-18Y-283	CMFSK05-18-8513-007-434	CMFSK05-18-F16-R02-18Y-217	CMFSK05-18-8513-007-382
Compressed Ht. at Tested Load	511	465	512	463	510	465	512	462
Alignment deviation (mm)	17	8	14	8	13	10	13	13

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNOOR	13405,14037	13393,14043
2.	Primary outer Spring	CMSTL	03-19 03A(4276,4701,4439,2621)	03-19 03A(4058,4225,4375,4347)
3.	Primary Inner Spring	CMSTL	02-19 02A(5385,5296,5558,5272)	02-19 02A(5326,5262,5304,5405)
4.	Primary Damper	KNORR	03-19 (00701,00350,00412,01562)	03-19 (02542,00116,01903,01066)
5.	Secondary Damper	KONI	04-19 (00132,05469)	04-19 (00132,05469)
6.	Lateral Damper	KONI	03-19 01534	03-19 01534
7.	Brake Cylinder	KBI	B(8265,7159,7112,8229)K29	B(8267,7158,5975,7036)K29
8.	Brake Caliper	KBI	B(5305,5241,5243,5304)-29	B(5306,5240,4191,4224)-29
9.	Brake Disc	KBI	24193647 0041-28/19,24193647 0040-28/19 24178952 0027-10/19,24178939 0068-13/19	24193647 0047-28/19,24193652 0042-29/19 24193647 0026-28/19,24193644 0033-28/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
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	SF	351,50,6,89	166,142,170,287
22.	Control Arm Lower	SF	36,98,79,68	208,63,SF,168
23.	Phonic Wheel	KNORR	K-07-19	K-07-19



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12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3199 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019G 8209
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Foot Step	M/s-HITECH INERAVANTURE PVT LTD RBL	
5.	D-coupling arrangement	M/S- KOHINOOR KR, MUMBAI	
6.	Floor board	M/S- SHRI RAM PNL PANJAB	
7.	PVC	M/S RESPONSIVE IND.MUMBAI	
8.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
9.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
10.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
13.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Roof Ceiling	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
16.	Door way /gang way ceiling	M/S- AMIRCHAND ENGG.WORKS, JALANDHAR	
17.	Supply Air Duct	M/s- AMIT ENG PKL.	
18.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
19.	Partition pillar	M/S- JR INDS/ATHONEY ENGG.	
20.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
21.	AC Trough	M/s-FIBRO PLASTICS PVT LTD KOLKATA	
22.	Body Side Doors 1,3	M/s- JVR INDS, LUDHIYANA	
23.	Body Side Doors 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Compartment Door (PPE)	M/s- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/s- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/S RAIL FAB. KAPURTHALA	
29.	Auxiliary Water Tank	M/s- AMIT ENG MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- AMIT ENG MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDI	
32.	Health Faucet	M/s- HINDUSTAN FIBER GLASS, VADODRA	
33.	Lotah Filler Tap	M/s- HINDUSTAN FIBER GLASS, VADODRA	
34.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
35.	Lavatory Modules 1	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
37.	Fire Extinguisher	M/s-SAFETY PLUS ENG.	PP-2433
38.	Fire Extinguisher	M/S-CAPITAL FIRE COM.	NPP-2205
39.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
40.	Light Luggage Rack	M/S- LUCKY ENTT GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
42.	RFID	M/S-TECH SOLUTION PVT LTD	Sr.104163,104164

वाइसे/एच/एमसी/एल

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, curtain 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 रेडि०का०, रायबरेली (लालगंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareilly	Dy.CQM/MCF/RBL उप मुख्य गुणवत्ता प्रबन्धक/शेल Dy. Chief Quality Manager/Shell आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

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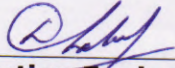
PAGE 1 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES				
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCW	SHELL/COACH NO	196275/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	19.88 Cub mtr/min		OK
3.2	Return Air	60.20 Cub mtr/min		OK
3.3	Exhaust Air	6.93 Cub mtr/min		OK
3.4	Conditioned Air	150.82 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. Not done.			--
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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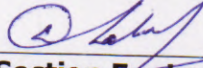
PAGE 2 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	BERTH READING LIGHTS	OK
11.0	COMPARTMENT LIGHT	OK
12.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
13.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
14.0	WORKING OF 60KVA TRANSFORMER	OK
15.0	WORKING OF REGULATED BATTERY CHARGER	OK
16.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
17.0	SAFETIES :	
17.1	THERMOSTAT :	OK
17.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
17.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
17.4	HYGROSTAT	OK
17.5	CONTROL CIRCUIT	OK
17.6	POWER CIRCUIT	OK
18.0	REFRIGERANT USED R 407C	OK


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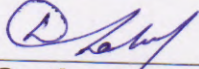
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PAGE 3 OF 5

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

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 1(NPP side) 3763 G Sr no of RMPU 2(PP side): 3764 G Sr no of Microprocessor: AE 19.03.322	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-632	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2019/08/0120 Sr no.1: 19080396 Sr no.2: 19080328 Srno.CPA: 2019/08/052-DR AUTO	As per spec EDTS 186,Rev-a, Am-2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cummtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Passenger area Light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
06.	Corridor Light with Night light Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
07.	Doorway/Gangway light, Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	06
08.	Emergency light system for EOG type coaches (AEL)Make: DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make: RT VISION	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04


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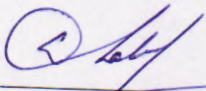
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PAGE 4 OF 5

Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	26
13.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	8
14.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	9
15.	Passenger alarm coach indication light Make: KAVERI	LW 76005,Alt-e	02
16.	Razor socket for WC 110/240V. Make: SSK	EDML 047 ,Rev nil	04
17.	Terminal strip Make: WAGO	EDML 033,Rev-c	01
18.	Terminal connector Make: WAGO	EDML 037,Rev`a`	04
19.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev_C, Item 1.	09
20.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make: SSK	EDML 047,Rev_A ,Item 2.	09
21.	Switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make: SSK	EDML 0,64,Rev-B, Item -16.	09
22.	PA system for LHB coaches Make : AHUJA	EDTS 173 Rev- a Am-1,2&3	01 set


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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PAGE 5 OF 5

ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	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 : 07/19	EDTS 129,Rev nil	01 set
24.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
25.	Battery fuse box +ve Make : AECO	LW 71001,Alt-F	01
26.	Battery fuse box -ve Make : RADIANT	LW 71002,Alt-F	01
27.	Regulated battery charger Make : M.B & COMPANY Sr no: 201907252	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Emergency battery charger Make : M.B & COMPANY Sr no: 201907280	EDTS 163,Rev `c` corg.-2&3	01
29.	5KVA Transformer Make: VIMAL SL.no : VTC-3089-LHB-1022	As Per EDTS-366,REV-NIL & CC-71510	01
30.	Capacitor Bank Make: KONTACT SL.no : KT-961	As per EDML-130 Rev-1,Corr-1	01
31.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-1461	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
32.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e` Am-2	02 sets
33.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	02
34.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02
35.	Wheel Slide Protection System (WSP) Make: KNORR Sr no : 0119121587	M/s : KNORR	01 set
36.	PANTRY EQUIPMENTS : Hot Case, Bottle cooler cum deep freezer Make : NIL	As per spec no EDTS 139, Rev- E ,Sec II.	00

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL DY CEE (PLG)/MCF/RBL

गुणवत्ता नियंत्रण
आपरेटिंगका/लालगंज/रायबरेली
S.S.E/Elect-QC/MCF/LJ/RBL

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