



# Modern Coach Factory Raebareli

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

आधुनिक रेल डिब्बा कारखाना, रायबरेली

## ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/651

RLY	C	R	-	-	Coach No.	1	9	6	2	3	4	/	C	DATE OF DISPATCH	2	9	-	0	8	-	1	9
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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	9	8	FUR.NO.	L3T-1245
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- Railway Board's Order No. : 2019/M(C)/142/2, dated -03-06-2019
- Tare Weight of Coach : 45.6 Tonnes
- Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1105 (NPPE) 2) 1105 (PPE)

### 6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	Front Part	PP END M/S DTL ltd pune 16 NPP END M/S DTL ltd pune 16 Complete M/S DTL ltd pune 16
2.	Lav. side wall	M/s-RAIL TECH KXH	LAV.1 --- LAV.2 --- LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE M/S-ECBT 30 RH SIDE M/S-ECBT 30	
4.	End wall	PP END M/S-OMEX REWARI --- NPP END M/S-OMEX REWARI ---	
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai	146
6.	Centre Buffer Coupler	M/S FRONTIER	PP END 187 P1 NPP END 106 P2

### 7. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm <sup>2</sup> . OK	08 sec. 3.0 kg/cm <sup>2</sup> OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm <sup>2</sup> /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	VIBGYOR	90/89	08.08.19
2.	Insulation			Satisfactory		

SSE/QC/MCF/RBL

रेडिंकॉ, रायबरेली (लालगंज)







MODERN COACH FACTORY, RAEBARELI

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DISPATCH	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	9	8	FUR .NO	L3T-1245
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**9. DETAIL OF BOGIES:**

ITEMS	PP Side				NPP Side			
Bogie No	194075				194076			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-43				ECBT-40			
Bolster no.	MCFRBL-LS5-1067				MCFRBL-LS5-842			
Axle No	19 P - 3830 RWF		19 P - 1620 RWF		19 P - 7880 RWF		19 P - 6616 RWF	
Wheel Dia	917.677	917.698	917.605	917.654	917.442	917.436	917.649	917.664
Wheel Disc No	TZ 04-19 34223-90I4	TZ 04-19 36184-90F7	TZ 04-19 34053-90I9	TZ 03-19 29614-9MG3	TZ 03-19 32577-90D9	TZ 05-19 50629-9PF7	TZ 05-19 50282-9PI9	TZ 03-19 32574-90D8
R.B. Nos.	07-19 15775	07-19 16164	07-19 15581	07-19 17217	07-19 16307	06-19 13018	07-19 16935	07-19 16543
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
Make & Nos.	TAYAL & CO. Sr.NO.18-09 1063	TAYAL & CO. Sr.NO.18-09 1054	TAYAL & CO. Sr.NO.18-09 994	TAYAL & CO. Sr.NO.18-09 1045

**11. TRACEABILITY OF BOGIE ITEMS :-**

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	14742,14749	14741,14732
2.	Primary outer Spring	CMFSK	03-19 7411-545(1383,1323,1307,1323)	03-19 7411-545(1298,1264,1310,1404)
3.	Primary Inner Spring	CMFSK	01-19 7143-500(398,452,425,433)	01-19 7143-500(153,386,318,373)
4.	Primary Damper	KONI	03-19 (04377,02939,02922,04398)	03-19 (00239,00586,02519,00566)
5.	Secondary Damper	IAI	01-19 (238163,237968)	01-19 (238088,238750)
6.	Lateral Damper	GABRIEL	11-18 804	11-18 805
7.	Brake Cylinder	KBI	B(5642,4756,4782,5550)K-29	B(5635,4730,4757,5634)K-29
8.	Brake Caliper	KBI	B(3074,3119,3114,2993)-29	B(3072,3117,3120,3073)-29
9.	Brake Disc	KBI	24195447 0052-30/19,24195446 0031-30/19 24190406 0041-22/19,24190406 0040-22/19	24190406 0034-23/19,24197614 0076-23/19 24190406 0033-23/19,24190406 0036-23/19
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	AR/ GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	Leveling Valve	KNORR	16-19 B 3810,16-19 B 3627	16-19 B 3629,16-19 B 3993
17.	Check Valve	KNORR	05-19 18616	05-19 18586
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	250519-2,040619-2,250519-2,020619-3	250519-2,02469-2,250519-2,028619-2
22.	Control Arm Lower	RVE	280519-3,280519-3,280519-3,RVE	280519-3,280519-3,250519-2,RVE
23.	Phonic Wheel	KNORR	K-06-19	K-06-19

Signature of SSE/Bogie/QC







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### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- KBI, FARIDABAD	3270 29/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019G 8332
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-8057,8039
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
6.	D-coupling arrangement	M/S-KOHINOOR KRMUMBAI	
7.	Floor board	M/s-TWPL MUMBAI	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-KRP PUNE	
10.	UIC Vestibule (NPPE)	M/S-KRP PUNE	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER METAL WORKS KXH	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER METAL WORKS KXH	
13.	Body Side Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
14.	Emergency Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
15.	Lavatory/hopper Window	M/S- SHATABDHI SAFETY GLASS, VADODARA	
16.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/s Amirchand engg.works Jalandhar	
18.	Supply Air Duct	M/S- GANDHI SAFE & ALLIED JUC	
19.	Partition panel	M/S- UNIVERSAL NOIDA	
20.	Partition pillar	M/S- J.R INDUSTRIES JALNDHAR	
21.	Side Wall panel	M/s Hindustan fibre ltd vadodara	
22.	AC Trough	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
23.	Body Side Door	M/S- JBM INDUSTRIES, FARIDABAD	
24.	Compartment Door (PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Compartment Door (NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/s- OMAX AUTO GURUGRAM	
29.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
30.	Under Slung Water Tank ( 2X685L)	M/S- AMIT ENG. BADDI	
31.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
32.	Health Faucet	M/s Hindustan fibre ltd vadodara	
33.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
34.	Bib cock	M/S- JAQUAR Alwar	
35.	Lavatory Modules	M/s Hindustan fibre ltd vadodara	
36.	Lavatory Doors	M/s Hindustan fibre ltd vadodara	
37.	Fire Extinguisher	M/S- Ashok eng.	PPE-4114 ,NPPE-4111
38.	Seat & Berth	M/s- OVPL. MUMBAI	
39.	Light Luggage Rack	M/S- LUCKY ENTT. GURGAON	
40.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

वरिष्ठ SSE/QC/MCF/RBL

गुजवत्ता विभाग  
70डि0क0, रायबरेली (लागंज)







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DISPATCH TO	SSE/STOCK/CSTM	Type	L	W	A	C	C	N	Shell No.	9	3	1	9	8	FUR.NO.	L3T-1245
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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 Frequency	REFERENCE & PERIOD OF TRIAL

### 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:

1. This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
2. This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
3. 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.
4. Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
5. For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
6. 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.CQM/MCF/RBL

वरिष्ठ अभियंता

SSE/QC/MCF/RBL

२० डि० का०, रायबरेली (लालमंज)

वरिष्ठ यांत्रिक अभियंता/गुणवत्ता  
Senior Mechanical Engineer/Quality  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory Raebareli

उप मुख्य गुणवत्ता प्रबन्धक/शैल  
Dy. Chief Quality Manager/Shell  
आधुनिक रेल डिब्बा कारखाना, रायबरेली  
Modern Coach Factory, Raebareli



MCF/RBL



3T-1245



Modern Coach Factory Raebareli  
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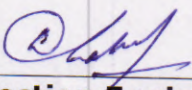
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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES			
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES			
TYPE COACH		LWACCN	SHELL/COACH NO
RAILWAY		CR	196234/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	19.87 Cub mtr/min	OK
3.2	Return Air	70.78 Cub mtr/min	OK
3.3	Exhaust Air	6.05 Cub mtr/min	OK
3.4	Conditioned Air	166.31 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 :22.2°C NPP 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  
 Quality control / Electrical  
 Modern Coach Factory Raebareli





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**FOR ELECTRICAL ITEMS**

ROLLING STOCK CERTIFICATE OF LHB/EOG 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	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM ( PAS )	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM ( WSP )	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED	OK

**R 407C**

**Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli**





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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : <b>FEEL</b> Sr no of RMPU (NPP side): <b>2119001134</b> Sr no of RMPU (PP side) : <b>2119001132</b> Sr no of Microprocessor: <b>19.02.045 A PAUL</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>INTEG</b> Sr no : <b>201907071</b>	RDSO/PE/SPEC/AC/0184-2015 REV-0	<b>01</b>
03.	Pump equipment with PLC controller & pump box Make : <b>DR AUTO</b> Sr no PA : <b>2019/06/0191</b> Sr no.1 : <b>19060740</b> Sr no.2 : <b>19060728</b> Sr no.CPA : <b>2019/07/068-DR AUTO</b>	As per spec EDTS 186,Rev-a, Am- 2	<b>01</b>
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : <b>INTEG</b>	EDTS331, TYPE-1 CORR.-1&2	<b>02</b>
05.	Door way/Gangway Light Make : <b>DR AUTO</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	<b>07</b>
06.	Provision of Passenger area light(Cabin) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	<b>09</b>
07.	Corridor Light with Night light Make: <b>DR AUTO/RT VISION</b>	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	<b>09</b>
08.	Emergency light system for EOG type coaches (AEL) Make : <b>A PAUL</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>RT VISION</b>	LW 76001,Alt nil	<b>04</b>
10.	Toilet indication (WC) light, Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	<b>04</b>
11.	Passenger alarm coach indication light Make : <b>KAVERI</b>	LW 76005,Alt-e	<b>02</b>

**Senior Section Engineer**  
**Quality control / Electrical**  
**Modern Coach Factory Raebareli**





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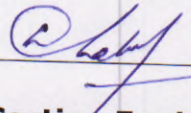
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : <b>SSK</b>	EDML 047,Rev nil	<b>04</b>
13.	Terminal strip Make : <b>WAGO</b>	EDML 034,Rev-a	<b>01</b>
14.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a'	<b>04</b>
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 04.	<b>09</b>
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item 05.	<b>09</b>
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	EDML 0,64,Rev-B, Item -16.	<b>09</b>
18.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am- 1,2&3	<b>01 set</b>
19.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : <b>AMARA RAJA</b> Lug date : <b>09/18</b>	EDTS 129,Rev nil	<b>01 set</b>
20.	Battery box for LHB coaches. Make : <b>HITECH</b>	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	<b>01</b>
21.	Battery fuse box +ve Make : <b>RADIANT</b>	As per LW 71001,Alt- F	<b>01</b>
22.	Battery fuse box -ve Make : <b>RADIANT</b>	As per LW 71002,Alt- F	<b>01</b>

  
Senior Section Engineer  
Quality control / Electrical  
Modern Coach Factory Raebareli





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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : <b>BHASIN</b> Sr no: <b>07194016</b>	EDTS 163,Rev `c' corg.-2&3	<b>01</b>
24.	Regulated battery charger Make : <b>EEC</b> Sr no: <b>11180045</b>	RDSO/PE/SPEC/AC/0183 (REV -0 )	<b>01</b>
25.	Provision of 5KVA TFR Make : <b>WAVES</b> SL.no : <b>WLDT5L 18412</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
26.	Provision of capacitor Bank Make : <b>KONTACT</b> SL.no : <b>KT-934</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
27.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R- 3089 LHB-1327</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
28.	Inter Vehicle (ZS)coupler Make: <b>PRIME ELECT.</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
29.	Feeder junction boxes. Make : <b>AECO</b>	EDTS-328 REV-C	<b>01 set</b>
30.	Wheel set earthling equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
31.	Wheel Slide Protection System (WSP) Make : <b>KNORR</b> Sr no : <b>0119091227</b>	M/s : <b>KNORR</b>	<b>01 set</b>
32.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>NIL</b>	As per EDTS -139, Rev- E ,Sec II.	<b>00</b>

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

गुणवत्ता नियंत्रण  
आपरेटिंगका/लजांज/रायबरेली  
S.S.E/Elect-QC/M.C.F./LJ/RBL

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