



# 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/2019-20/766

RLY	N	W	R	Coach No.	1	9	6	4	7	4	/	C	DATE OF DISPATCH	2	1	-	0	9	-	1	9
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DISPATCH TO	Sr.DME/C&W/JP	Type	L	W	A	C	C	N	Shell No.	9	3	2	2	5	FUR.NO.	L3T-1269
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1. Railway Board's Order No. : 2019/M(C)/142/2, dated -03 -06-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

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	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1100 (NPPE) 2) 1102 (PPE)

### 6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-DTL	35
	Front Part	NPP END M/s-DTL	35
	Complete	M/s-DTL	35
2.	Lav. side wall	M/s-RAIL TECH KXH	LAV.1 --- LAV.2 ---
		M/s-RAIL TECH KXH	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE M/s-ECBT CHANDIGARH	35
		RH SIDE M/s-ECBT CHANDIGARH	35
4.	End wall	PP END M/s-RAIL TECH KXH	---
		NPP END M/s-RAIL TECH KXH	---
5.	Roof	M/s-PIL	164
6.	Centre Buffer Coupler	M/s-SANROK	PP END 13420 NPP END 13398

### 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-EMPRISE MARKETING	SUPPLY & APPLY	95/94	22.08.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता  
SSE/QC/MCF/RBL  
रेल डिब्बा कारखाना, रायबरेली (लाहौर)







MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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**9. DETAIL OF BOGIES:**

ITEMS	PP Side				NPP Side			
Bogie No	197067				197068			
Bogie Type	FIAT				FIAT			
Frame no.	KANSAL-07				KANSAL-06			
Bolster no.	MCF/RBL-LS5-1147				MCF/RBL-LS5-1161			
Axle No	19 R - 2044 RWF		19 P - 9711 RWF		19 R - 1171 RWF		19 R - 0989 RWF	
Wheel Dia	917.7	917.573	917.631	917.541	917.621	917.541	917.657	917.636
Wheel Disc No	TZ 05-19 41859-9MI9	TZ 05-19 41858-9MI9	TZ 01-19 21455-8XH4	TZ 03-19 29751-9MG5	TZ 03-19 29819-9MH1	TZ 05-19 41810-9PH3	TZ 03-19 29815-9MH1	TZ 04-19 36640-9OP7
R.B. Nos.	07-19-20086	07-19-22242	07-19-18643	07-19-21942	07-19-19783	07-19-21381	07-19-20870	07-19-20102
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

**10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-**

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	TAYAL & CO. Sr.NO.19-05 0625	TAYAL & CO. Sr.NO.19-05 0624	TAYAL & CO. Sr.NO.19-05 0644	TAYAL & CO. Sr.NO.19-05 0645

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

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	15033,15825	15021,14739
2.	Primary outer Spring	CMFSK	03-19 74-545(1279,1311,1347,1456)	03-19 74-545(1594,1551,1782,1292)
3.	Primary Inner Spring	CMAFJ	01-19 7143(295,296,296,287)	01-19 7143(316,77,49,71)
4.	Primary Damper	KONI	03-19 (1079,00616,1138,00886)	03-19 (02447,01633,00130,00573)
5.	Secondary Damper	KONI	04-19 (06459,04330)	03-19 (00130,00128)
6.	Lateral Damper	GABRIEL	11-18 1312	11-18 1257
7.	Brake Cylinder	FAV	E19(522,510,470,267)	E19(530,164,171,520)
8.	Brake Caliper	FAV	E19(1801,1799,1838,1840)B	E19(1776,1774,1798,1800)B
9.	Brake Disc	KBI	24193644 0012-28/19,24193642 0066-28/19 24193649 0070-28/19,24193649 0071-28/19	24193652 0010-28/19,24193652 0011-28/19 24193652 0009-28/19,24193649 0068-28/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	ARYAN		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	16-19 B 6021,16-19 B-5952	16-19 B 5926,16-19 B-6019
17.	Check Valve	ESCORT/KNORR	ESCORT - 1905	07-19 19448
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	NIPHA	203,0145,0050,0211	0218,0319,0154,0185
22.	Control Arm Lower	NIPHA	0509,0841,234,0508	0052,324,0128,338
23.	Phonic Wheel	KNORR	FT/KEP/1	FT/KEP/1

Signature of SSE/Bogie/QC





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DISPATCH TO	Sr.DME/C&W/JP			Type	L	W	A	C	C	N	Shell No.	9	3	2	2	5	FUR.NO.	L3T-1269			

### 12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	C19177B
2.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	19035693B
3.	Pull box	M/S- KBI, FARIDABAD	
4.	FIBA	M/S- KBI, FARIDABAD	PP-8073/29 NPP-7981/29
5.	Foot Step	M/s-HITECH INERAVANTURE PVT LTD RBL	
6.	Decoupling arrangement	M/S- KOHINOOR KR, MUMBAI	
7.	Floor board	M/s-T.W.P.L. MUMBAI	
8.	PVC	M/S RESPONSIVE IND.MUMBAI	
9.	UIC Vestibule (PPE)	M/S-SUNCREST IND.KOLKATA	
10.	UIC Vestibule (NPPE)	M/S-SUNCREST IND.KOLKATA	
11.	Gangway bridge mounting (PPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
12.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER MATEL WORKS, KAPURTHALA	
13.	Body Side Window	M/s- SHATABDI SAFTY GLASS VADODARA	
14.	Emergency Window	M/s- SHATABDI SAFTY GLASS VADODARA	
15.	Lavatory/hopper Window	M/s- SHATABDI SAFTY GLASS VADODARA	
16.	Roof Ceiling	M/S-MOBILITY SOLUTION LTD MOHALI	
17.	Door way /gang way ceiling	M/S-AMIRCHAND ENG WORKS JALANDHAR	
18.	Supply Air Duct	M/S-HANSPAL TRADERS KXH	
19.	Partition panel	M/S-MOHAN RAIL COMPONENT KXH	
20.	Partition pillar	M/s- J R INDUS JALANDHAR	
21.	Side Wall panel	M/S-ALEX OVER SEAS PVT LTD KXH	
22.	AC Trough	M/s-FIBRO PLASTIC (NPP)& MEENA FIBER (PP)	
23.	Body Side Doors 1,3	M/S- J V R INDUS LDH	
24.	Body Side Doors 2,4	M/S- JBM INDUSTRIES, FARIDABAD	
25.	Compartment Door (PPE)	M/S- KALSI FAB LTD LDH	
26.	Compartment Door (NPPE)	M/S- KALSI FAB LTD LDH	
27.	Vestibule Door(PPE)	M/S- HANSPAL TRADERS, KXH	
28.	Vestibule Door(NPPE)	M/S- HANSPAL TRADERS, KXH	
29.	Bio Tank	M/S- FLASH FORGE (P) LTD VIZAG	
30.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
31.	Under Slung Water Tank ( 2X685L)	M/S- AMIT ENG. BADDI	
32.	Under Slung Water Tank (1x450 L)	M/S- AMIT ENG. BADDI	
33.	Health Faucet	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
34.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
35.	Bib cock	M/s- JAQUAR PVT.LTD.ALWAR	
36.	Lavatory Modules	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
37.	Lavatory Doors	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
38.	Fire Extinguisher	M/s-SAFETY PLUS ENG	PPE-2247 ,NPPE-2271
39.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTER PRISES	
40.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS, MUMBAI	
41.	Light Luggage Rack	M/S- LUCKY ENTERPRISES , GURUGAON	
42.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	
43.	RFID	M/s-TECH SOLUTION GURGAON	Sr-104970-104966

अभिषेक  
SSE/QC/MCF/RBL  
रेलवे कारखाना, रायबरेली (राज्य)





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DISPATCH TO	Sr.DME/C&W/JP			Type	L	W	A	C	C	N	Shell No.	9	3	2	2	5	FUR.NO.	L3T-1269			

### 13. MODIFICATION (IF ANY)

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:

- 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.

 <b>SSE/QC/MCF/RBL</b> गुणवत्ता विभाग ०८डि०का०, रायबरेली (लालगंज)	 <b>SME/QC/MCF/RBL</b> वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	 <b>Dy.CQM/MCF/RBL</b> जोगिन्दर सिंह Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली 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

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES				
TYPE COACH		LWACCN	SHELL/COACH NO	196474/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	20.03 Cub mtr/min		OK
3.2	Return Air	74.24 Cub mtr/min		OK
3.3	Exhaust Air	7.15 Cub mtr/min		OK
3.4	Conditioned Air	166.12 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 :21.4°C NPP Side :22.6°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.			----

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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 <b>R 407C</b>	OK

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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>AMIT ENGG.</b> Sr no of RMPU (NPP side): <b>3749 G</b> Sr no of RMPU (PP side) : <b>3745 G</b> Sr no of Microprocessor: <b>AE 19.08.639</b>	As per rdso/pe/spes/ac/0061/rev-1/2005	<b>02</b>
02.	Switch board cabinet Make : <b>AMIT ENGG.</b> Sr no : <b>AE/SB-767</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>2019/08/0126</b> Sr no.1 : <b>19080311</b> Sr no.2 : <b>19080310</b> Sr no.CPA : <b>2019/08/042-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>RT VISION</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</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>DR AUTO</b>	EDTS 151,Rev -c Am-1 & 2	<b>04</b>
09.	Lavatory light fitting assly Make : <b>K.LITE</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>

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## ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

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 SET</b>
14.	Terminal connector Make : <b>WAGO</b>	EDML 037,Rev`a'	<b>1 SET</b>
15.	Provision of 04 switch with socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : <b>SSK</b>	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	<b>18</b>
16.	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>54</b>
17.	PA system for LHB coaches Make : <b>AHUJA</b>	EDTS 173,Rev- a Am-1,2&3	<b>01 set</b>
18.	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>08/18</b>	EDTS 129,Rev nil	<b>01 set</b>
19.	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>
20.	Battery fuse box +ve Make : <b>INDORAIL</b>	As per LW 71001,Alt-F	<b>01</b>
21.	Battery fuse box -ve Make : <b>ISGPL</b>	As per LW 71002,Alt-F	<b>01</b>
22.	Reading light for longitudinal berth ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	<b>9</b>

  
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REV NO: 00

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## ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	<b>27</b>
24.	Reading light for transverse berth (RHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	<b>18</b>
25.	Reading light for berth transverse ( LHS) Make: <b>DR AUTO</b>	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	<b>18</b>
26.	Emergency battery charger Make : <b>BHASIN</b> Sr no: <b>10181671</b>	EDTS 163,Rev `c` corg.-2&3	<b>01</b>
27.	Regulated battery charger Make : <b>EEC</b> Sr no: <b>01190006</b>	RDSO/PE/SPEC/AC/0183 (REV -0 )	<b>01</b>
28.	Provision of 5KVA TFR Make : <b>VIMAL</b> SL.no : <b>VTC-R-3089-LHB-1054</b>	As Per EDTS-366,REV-NIL & CC-71510	<b>01</b>
29.	Provision of capacitor Bank Make : <b>KONTACT</b> SL.no : <b>KT-936</b>	As per EDML-130 Rev-1,Corr-1	<b>01</b>
30.	60KVA transformer Make : <b>VIMAL</b> Sr no : <b>VTC-R- 3089 LHB-NIL</b>	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	<b>01</b>
31.	Inter Vehicle (ZS)coupler Make: <b>MAA LAXMI INDUSTRIES</b>	As per RDSO PE SPEC-0177-2013 REV-0	<b>01 set</b>
32.	Feeder junction boxes. Make : <b>NEC</b>	EDTS-328 REV-C	<b>01 set</b>
33.	Wheel set earthling equipment. Make : <b>PRIME ELECT.</b>	EDTS101,REV-C,AM-1	<b>02 sets</b>
34.	Wheel Slide Protection System (WSP) Make : <b>FAIVELEY</b> Sr no : <b>0180</b>	M/s : <b>FAIVELEY</b>	<b>01 set</b>
35.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : <b>NIL</b>	As per EDTS -139, Rev- E ,Sec II.	<b>00</b>

SSE/EL/QC

वरिष्ठ अनुभाग अभियन्ता

गुणवत्ता नियंत्रण

आउटरीडिंग / लालगंज / रायबरेली  
S.S.E./Elect-QC/M.C.F./LJ/RBL

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

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