



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/2019-20/628

RLY	N	W	R	-	Coach No.	1	9	6	1	1	9	/	C	DATE OF DISPATCH	2	5	-	0	8	-	1	9
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DISPATCH TO	Sr.DME/C&W/IP	Type	L	W	A	C	C	W	Shell No.	9	3	0	4	3	FUR.NO.	L2T(T)-58
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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 5/6 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) 1101 (NPPE) 2) 1104 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END	M/S- RAIL TECH KXH
		NPP END	M/S- RAIL TECH KXH
		Complete	MCF RBL
2.	Lav. side wall	M/S- RAIL TECH KXH	LAV.1
		M/S- RAIL TECH KXH	LAV.2
3.	Side wall	MCF/RBL(V4U)	LAV.3
		MCF/RBL(V4U)	LAV.4
4.	End wall	PP END	MCF/RBL/SIS
		NPP END	MCF/RBL/SIS
		M/S Pennar ind. Ltd. Thiruvallur Cheenai	43
5.	Roof	M/S Pennar ind. Ltd. Thiruvallur Cheenai	43
6.	Centre Buffer Coupler	M/S Sanrok faridabad	PP END 12329 NPP END 12337

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 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 @ 0.1 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	M/S-VIBGYOR	91/89	19/05/19
2.	Insulation			Satisfactory		

वर्तमान अभियंता
SSE/QC/MCF/RBL
२०६०६०, रायबरेली (लागूगंज)





MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	193100				193099			
Bogie Type	FIAT				FIAT			
Frame no.	WIL-228				WIL-339			
Bolster no.	MCF/RBL-LS5-866				MCF/RBL-LS5-824			
Axle No	19 P - 6515 RWF		19 P - 7522 RWF		19 P - 7109 RWF		19 P - 2984 RWF	
Wheel Dia.	917.535	917.621	917.559	917.538	917.53	917.592	917.513	917.625
Wheel Disc No	TZ 05-19 48687-9PF3	TZ 05-19 42370-9PI3	TZ 04-19 40524-9OE3	TZ 01-19 21742-8XH2	TZ 05-19 42371-9PI3	TZ 05-19 42372-9PI3	TZ 04-19 37954-9OI4	TZ 02-19 22692-9MK4
R.B. Nos.	05-18 11858	05-18 29114	05-18 38796	05-18 11492	05-18 12321	05-18 39179	05-19 40663	05-18 29680
CT R B Make	SKF		SKF		SKF		SKF	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side		Bogie PP side	
Make & Nos.	Secondary 1	Secondary 2	Secondary 1	Secondary 2
	AWADH RAIL INFRA Sr.NO.10-18 883	AWADH RAIL INFRA Sr.NO.10-18 734	AWADH RAIL INFRA Sr.NO.10-18 833	AWADH RAIL INFRA Sr.NO.10-18 975

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	12290,12292	12283,12289
2.	Primary outer Spring	CMAFI	05-19 7411(58,51,57,191)	05-19 7411(56,188,52,88)
3.	Primary Inner Spring	CMFSK	05-19 1035-559(2103,1695,1846,1723)	05-19 1035-559(2024,2759,1849,1951)
4.	Primary Damper	KONI	03-19 (03237,00879,03249,1413)	03-19 (00868,03444,04447,04513)
5.	Secondary Damper	KNORR	01-19 (16706,16686)	01-19 (17321,16692)
6.	Lateral Damper	GABRIEL	11-18 1353	11-18 1517
7.	Brake Cylinder	KBI	B(5916,4964,4969,5897)K-29	B(5919,4985,5039,5836)K-29
8.	Brake Caliper	KBI	B(3344,3384,3359,3331)-29	B(3345,3383,3385,3343)-29
9.	Brake Disc	KBI	24185208 0006-13/19,24178943 0023-13/19 24178943 0018/13/19,24178943 0022-13/19	24185213 0031-14/19,24185217 0023-16/19 24185213 0030-14/19,24185212 0026-14/19
10.	Ball Joint Control Arm	ARYAN,AR/ARYAN		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	ARYAN/AR		
15.	Ball joint traction centre	ARYAN		
16.	Leveling Valve	ESCORT	1904,1904	1904,1904
17.	Check Valve	ESCORT	1904	1904
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/PPI		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF/NIPHA	174,45,SF,36	128,99,428,118
22.	Control Arm Lower	SF/NIPHA	110,253,323,380	2,3,402,281
23.	Phonic Wheel	KBI	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	2605 15/19
2.	Distribution valve	M/S- KBI, FARIDABAD	2019 D7361
3.	Pull box	M/S- KBI, FARIDABAD	
4.	Foot Step	M/s- SUPER SPARKS PVT. LTD. FARIDABAD	
5.	D-coupling arrangement	M/S-KOHINOOR MUMBAI	
6.	Floor board	M/s- SHRI RAM PANEL S PUNJAB	
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 METAL WORKS KXH	
11.	Gangway bridge mounting (NPPE)	M/S- MAHAVEER METAL WORKS KXH	
12.	Body Side Window	M/S- RELIABLE SAFTEY NOIDA	
13.	Emergency Window	M/S- RELIABLE SAFTEY NOIDA	
14.	Hopper Window	M/S- SHATABDI SAFTEY GLASS	
15.	Roof Ceiling	M/s-MSL (MOBILITY SOLUTION LTD.) MOHALI	
16.	Door way /gang way ceiling	M/s Amirchand engg.works Jalandhar	
17.	Supply Air Duct	M/s Hanspal TRADERS KXH	
18.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
19.	Partition pillar	M/S-NAGINA ENGG, KXH	
20.	Side Wall panel	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
21.	AC Trough	M/s-MEENA FIBRE PUDACHERY	
22.	Body Side Doors 1,3,4	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Body Side Doors 2	M/S- JVR IND LDH	
24.	Compartment Door (PPE)	M/S- KALSI LDH	
25.	Compartment Door (NPPE)	M/S- KALSI LDH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/s- RASANDIK IND GURUGRAM	
29.	Auxiliary Water Tank	M/s- AMIT ENG. MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- RAIL FAB KXH	
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	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
36.	Lavatory Doors	M/s- HINDUSTAN FIBER GLASS, VADODRA (GUJARAT)	
37.	Fire Extinguisher	M/S-CAPITAL FIRE	PP-6561
38.	Fire Extinguisher	M/S-CAPITAL FIRE	NPP-7073
39.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND. LLJ	
40.	Light Luggage Rack	M/S- LUCKY ENT. GUNGAON	
41.	Snack Table	M/S- INTERNATIONAL TRACTORS LTD. JALNDHAR	

SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओ, रायबरेली (लाबगंज)



आपूर्ति / गुणवत्ता



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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:

- 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 ०६०६०००, रायबरेली (लाखगंज)	 SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियन्ता/गुणवत्ता Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	 Dy.CQM/MCF/RBL जोगिन्दर सिंह उप मुख्य गुणवत्ता प्रबन्धक Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli
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Modern Coach Factory Raebareli
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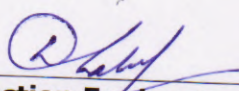
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FOR ELECTRICAL ITEMS

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	196119/C
RAILWAY		CR	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	19.88Cub mtr/min		OK
3.2	Return Air	82.97Cub mtr/min		OK
3.3	Exhaust Air	7.15 Cub mtr/min		OK
3.4	Conditioned Air	158.04Cub 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
Quality control / Electrical
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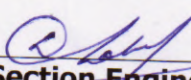
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ROLLING STOCK CERTIFICATE OF LHB/EOG 2T AC COACHES

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	OK

R 407C


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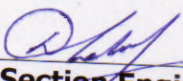
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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof Mounted AC package unit for LHB AC coaches Make : AMIT ENGG. Sr no of RMPU 1(NPP side) 3682 F Sr no of RMPU 2(PP side): 3690 F Sr no of Microprocessor: AE 19.07.581	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : AMIT ENGG. Sr no : AE/SB-703	As per spec no .EDTS073,REV-D,AM-6	01
03.	Pump equipment with PLC controller& pump box Make: DR AUTO Sr no PA: 2019/05/67 Sr no.1: 19040269 Sr no.2: 19040232 Srno.CPA: 2019/07/058-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: DR AUTO/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: A PAUL	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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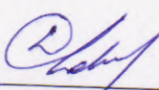
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Sr no	Description	Drg/Spec no.	Quantity per Coach
11.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, TYPE-F1	9
12.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091- 2016,REV-01, 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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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 : 09/18	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 : RADIANT	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: 201908404	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Emergency battery charger Make : M.B & COMPANY Sr no: 201908358	EDTS 163,Rev `c` corg.-2&3	01
29.	5KVA Transformer Make: VIMAL SL.no : VTC 3089 LHB-1075	As Per EDTS-366,REV-NIL & CC-71510	01
30.	Capacitor Bank Make: KONTACT SL.no : KT-701	As per EDML-130 Rev-1,Corr-1	01
31.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089 LHB-1342	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 : SIDWAL	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 : 01119151725	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

गुणवत्ता नियंत्रण

आपरेटिंगका/लालगंज/रायबरेली

S.S.E./Elect-QC/M.C.F./LLJ/RBL

AWM(ELECT.)/MCF/RBL
DY CEE (PLG)/MCF/RBL

सं कार्य प्रबन्धक/विद्युत

आपरेटिंगका/रायबरेली

A.W.M./Electrical/MCF/RBL