



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF

8002/LBAC

REV NO: 00

DATE: 21.02.2019

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1061

RLY	W	R	-	Coach No.	1	9	7	2	8	0	/	C	DATE OF DISPATCH	1	4	-	1	1	-	1	9
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DISPATCH TO	Sr.DME/BCT	Type	L	W	C	B	A	C	Shell No.	9	5	0	3	3	FUR.NO.	LBAC-62
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1. Railway Board's Order No. : 2019/M(C)/142/2, Dated: 25-10-2019

2. Tare Weight of Coach : 39 Tonnes

3. Carrying Capacity : (a) Seating: 15 (b) Sleeping: 15 (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	4039
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1100 (NPPE) 2) 1097 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END	M/s-JBM
		NPP END	M/s-ECBT
	Complete	MCF/RBL	74
2.	Lav. side wall	M/s-RAIL TECH KXH	95033
		M/s-RAIL TECH KXH	LAV.1 --- LAV.2 ---
3.	Side wall	LH SIDE	MCF/RBL
		RH SIDE	MCF/RBL
4.	End wall	PP END	M/s-MCF
		NPP END	M/S- OMAX REWARI
			23/01 23/02 ---
5.	Roof	M/s-MCF/CONT	---
6.	Centre Buffer Coupler	M/S- ESCORTS	22
		PP END 1855	NPP END 1862

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	06 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- NEROLAC	(SUPPLY & APPLY)	90/89	08.10.19
2.	Insulation			Satisfactory		

वरिष्ठ अभियंता
गुणवत्ता विभाग
रेडि०का०, रायबरेली (लालगंज)





MODERN COACH FACTORY, RAE BAREILI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2019-20/1061

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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	191125				191126			
Bogie Type	FIAT				FIAT			
Frame no.	ECBT-44				ECBT-37			
Bolster no.	MCF/RBL-LS5-1159				MCF/RBL-LS5-1174			
Axle No	19 R-6390 RWF		19 S - 1248 RWF		19 S-1929 RWF		19 S 1931 - RWF	
Wheel Dia	917.51	917.574	917.521	917.569	917.473	917.624	917.458	917.486
Wheel Disc No	TZ 06-19 51489-9PJ5	TZ 07-19 67073-9RM8	TZ 06-19 55526-9PD3	TZ 07-19 67070-9RM8	TZ 06-19 51487-9PJ5	TZ 06-19 51488-9PJ5	TZ 06-19 51859-9PJ6	TZ 06-19 58737-9FI9
R.B. Nos.	07-19-17221	07-19-20860	07-19-15869	07-19-19991	07-19-17158	07-19-21645	06-19-14901	07-19-21415
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.	AVADH RAIL INFRA Sr.NO. 09-18 633	AVADH RAIL INFRA Sr.NO. 09-18 497	AVADH RAIL INFRA Sr.NO. 09-18 573	AVADH RAIL INFRA Sr.NO. 09-18 581

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	18453,16638	16609,18466
2.	Primary outer Spring	CMAFJ/CMFSK	03-19 7411 (133,130,126,132)	06-19 1911-561 (396,398,252,257)
3.	Primary Inner Spring	CMSTL	02-19 02A(5333,5251,5568,5268)	02-19 02A(5254,5576,5343,5189)
4.	Primary Damper	KONI	02-19 (65370,65618,65609,65622)	02-19 (65347,65584,65585,65357)
5.	Secondary Damper	KNORR	05-19 (19341,19423)	05-19 (19434,19440)
6.	Lateral Damper	KONI	04-19 02160	04-19 0907
7.	Brake Cylinder	KBI	B(8685,7757,7799,8661)K-29	B(8815,7384,7242,8839)K-29
8.	Brake Caliper	KBI	B(5696,5887,5888,5699)K-29	B(5857,5928,5927,5856) -29
9.	Brake Disc	FAV	06-19 (6133,6133,5609,5608)D-133561-300	06-19 (5606,5607,6135,6134)D-133561-300
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF		
13.	Traction lever make	SSF		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	KNORR	06-19 A 10618,06-19 A 10664	16-19 B 5706,16-19 B 5711
17.	Check Valve	KNORR	06-19 10612	05-19 18648
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SF/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	200719-1,310719-2,250719-5,250719-5	210719-1,270719-1,270719-1,270719-1
22.	Control Arm Lower	RVE	030819-3,030819-1,020819-2,030819-3	240719-2,RVE,RVE,240719-2
23.	Phonic Wheel	KNORR	K-08-19 640209	K-08-19

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	
2.	Distribution valve	M/s- KBI, FARIDABAD	3774 37/29
3.	Pull box	M/s- KBI, FARIDABAD	2019 J 8984
4.	Fiba Device	M/s- KBI, FARIDABAD	
5.	Foot Step	M/s-HITECH INERAVANTURE PVT LTD RBL	PP-7668/29
6.	Decoupling arrangement	M/S-ELASTOMER LINING WORKS, MUMBAI	NPP-7539/29
7.	Floor board	M/s- SHRI RAM PANELS, PUNJAB	
8.	PVC	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
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 METAL WORKS, KXH	
12.	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
13.	Body Side Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
14.	Emergency Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
15.	Lavatory/hopper Window	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
16.	Automatic Fire Detection System	M/S- SANROK ,FARIDABAD	
17.	Roof Ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
18.	Door way /gang way ceiling	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
19.	Supply Air Duct	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
20.	Partition panel	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
21.	Partition pillar	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
22.	Side Wall panel	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
23.	AC Trough	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
24.	Body Side Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
25.	Compartment Door	M/s- JVR INDS, LUDHIYANA	
26.	Vestibule Door(PPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
27.	Vestibule Door(NPPE)	M/S- HANSBAL TRADERS, KXH	
28.	Pantry sliding door	M/S- HANSBAL TRADERS, KXH	
29.	Saloon sliding door(PPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
30.	Saloon sliding door(NPPE)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
31.	FRP panels for pantry room	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
32.	Shutter (small)	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
33.	RMPU	M/s- AMIT ENG.PKL	
34.	Bio Tanks	M/S- FLASH FORGE (P) LTD VIZAG	
35.	Auxiliary Water Tanks	M/s- AMIT ENG. MOHALI	
36.	Under Slung Water Tank (2X685L)	M/s- SHIVALIK FAST. MOHALI	
37.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENG. BADDHI	
38.	Flexible Faucet	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
39.	Lotah Filler Tap	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
40.	Bib cock	M/s- JAQUAR PVT. LTD. ALWAR	
41.	Lavatory Modules	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
42.	Lavatory Doors	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
43.	Fire Extinguisher	M/s-CAPITAL FIRE.COM	
44.	Seat & Berth	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	Sr.no-9831
45.	WATER PURIFIRE	M/S- HINDUSTAN FIBRE GLASS WORKS,VADODARA	
46.	RFID	M/S-TECH SOLUTION PVT LTD.	Sr.105740,105739

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DISPATCH TO				Sr.DME/BCT				Type	L	W	C	B	A	C	Shell No.	9	5	0	3	3	FUR.NO.	LBAC-62

13. MODIFICATION (IF ANY)

NIL

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 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.

S.S.E/QC/MCF/RBL गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)	S.M.E/QC/MCF/RBL Senior Mechanical Engineer/Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory Raebareli	Dy.CQM/MCF/RBL Dy. Chief Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:25.01.2019

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG HOG AC HOT BUFFET CAR
ELECTRICAL TEST CERTIFICATE FOR LHB/EOG HOG AC HOT BUFFET CAR

TYPE COACH		LWCBAC		SHELL/COACH NO		197280/C	
RAILWAY		WR		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			19.72 Cub mtr/min		OK	
3.2	Return Air			78.72 Cub mtr/min		OK	
3.3	Exhaust Air			7.04 Cub mtr/min		OK	
3.4	Conditioned Air			174.71 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 :22.1 °C NPP Side :21.5°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					---	

(Signature)

Senior Section Engineer
Quality control / Electrical
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FOR ELECTRICAL ITEMS

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ELECTRICAL TEST CERTIFICATE FOR LHB EOG/HOG AC HOT BUFFET CAR

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 PANTRY EQUIPMENTS	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 TRANSFORMERS	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETY :	
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	

(Signature)

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

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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 (NPP side): 4094 J Sr no of RMPU (PP side) : 4091 J Sr no of Microprocessor: AE 19.09.874	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-HB-19-06-0052	As per Spec no.EDTS134,REV.D,AM-5	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/09/0103 Sr no.1 : 19090082 Sr no.2 : 19090174 Sr no.CPA : 2019/06/107-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : ECOFIT	EDTS331, TYPE-1 CORR.-1&2	01
05.	Provision & mounting of Passenger area light(Cabin) Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L & Drg no LW76090	09
06.	Provision & mounting of Corridor Light with Night light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M & Drg no LW76091	09
07.	Provision & mounting of Doorway/ Gangway light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099	06
08.	Provision & Mounting of PACIL Assly. Make : KAVERI	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-I Drg no. LW 76098.	02
09.	Provision & Mounting of Toilet indication light, Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1 Drg no. LW 76097.	01
10.	Provision & Mounting of Lavatory Light Make : K.LITE	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D & Drg no. LW 76092.	02
11.	Terminal connector Make : WAGO	EDML 037,Rev` a`	04
12.	Provision of terminal strip with flanges Make : WAGO	As per EDML-034 Rev -A	01SET

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Sr no	Description	Drg/Spec no.	Quantity per Coach
13.	Provision of Four Switch 6A/250V AC Complete With Steel Plate & Cover Frame. Make: SSK	As per Spec no.EDML043,CORR-1	04 nos
14.	Provision of Twin Switch 6A/250V,Complete With Steel Plate & Cover Frame. Make: SSK	As per Spec no.EDML044,REVNIL,CORR-1	03 nos
15.	Provision of Single Switch 16A,250V & 6/16A,250V.AC 6-Pin Shuttered Socket Compl. With Steel Plate & Cover Frame, Make: SSK	As per Spec no.EDML045,CORR-1	06 nos
16.	Provision of PA System for LHB EOG Rajdhani Rake . Make:- PANJAB RADIO(AHUJA) Call box Make: BOSCH	As per Spec no.EDTS173,REV.A,AM-3	01 set
17.	Jumper Cable with Connector for PA System. Make:- MV	As per drg no.LW75206,Alt' c	01 set
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 : AMARA RAJA Lug date : 06/19	EDTS 129,Rev nil	01 set
19.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
20.	Battery fuse box +ve Make : RADIANT	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : RADIANT	As per LW 71002,Alt-F	01
22.	Emergency battery charger Make : BHASIN Sr no: 08198980 Make : BHASIN Sr no: 08198965	EDTS 163,Rev `c` corg.-2&3	02
23.	Provision of capacitor Bank Make : KONTACT SL.no: KT-998	As per EDML-130 Rev-1,Corr-1	01
24.	60KVA transformer Make : VIMAL Sr no : VTC-R-3089-LHB-2138 Make: VIMAL Sr no : VTC-R-3089-LHB-1629	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	02

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आधुनिक रेल डिब्बा कारखाना, रायबरेली

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ROLLING STOCK CERTIFICATE OF LHB/EOG/HOG AC HOT BUFFET CAR

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Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	ZS coupling 400A/750V/03Ph/50hz. Make : PRIME ELECT.	As per spec No EDTS 105,Rev`e` Am-2	01 set
26.	Feeder junction boxes. Make : INDORAIL	EDTS-328 REV-C	01 set
27.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02 sets
28.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119211993	As per M/s Sab Webco, M/s Knorr Bremse, M/s Escorts.	01 Set
29.	Provision of fitment of modular Integrated Pantry unit.	As per spec no EDTS 118,REV- E,AM-2	01 Set
30. (a)	Hot Plate: Make:- SPECTRUM		03
(b)	Geysers Make: SPECTRUM		01
(c)	Hot Water Boilers, Make: SPECTRUM		02
(d)	Bottle Coolers, Make: SPECTRUM		01 set
(e)	Deep Freezers Make: SPECTRUM		01 set
(f)	Hot Case, Make: SPECTRUM		01 set
(g)	Chimneys, Make: SPECTRUM		03
h)	Oven Toaster Griller Make: SPECTRUM		01
(i)	Refrigerator Make: SUMSUNG		01
(j)	Insect Killer Make: NIL		02

SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता	AWM(ELECT.)/MCF/RBL for SEE(P)/MCF/RBL

गुणवत्ता नियंत्रण
आ०रे०डि०का० / लालगंज / रायबरेली
SSE/EL/QC/M.C.F./LLJ/RBL

स० कार्य प्रबन्धक / विद्युत
आ०रे०डि०का० / रायबरेली
A.W.M./Electrical/MCF/RBL

