



MODERN COACH FACTORY, RAEBARELI

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/2020-21/251

RLY	C	R	-	Coach No.	2	0	4	3	4	4	/	C	-	DATE OF DISPATCH	3	1	0	7	2	0	2	0
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DISPATCH	Sr.DME/PUNE	Type	L	W	S	C	Z	AC	Shell No.	9	4	1	0	4	-	FUR .NO	SCZAC-11
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	200291				200292			
Bogie Type	FIAT				FIAT			
Frame no	MCF/RBL-2052				MCF/RBL-851			
Bolster no.	SHIVOLIKA-50				UE-056			
Axle No	20W - 9863 RWF		20 W - 2407 RWF		20W- 2361 RWF		20W - 9775 RWF	
Wheel Dia	917.438	917.476	917.449	917.478	917.453	917.318	917.246	917.067
Wheel Disc No	TZ-12-19 94407-9WM7	TZ-11-19 78990-9VF9	TZ-11-19 85138-9WL1	TZ-11-19 79807-9WE5	TZ-11-19 83132-9WG2	TZ-11-19 77016-9WF2	TZ-11-19 80713-9WE3	TZ-12-19 94406-9WM1
R.B. Nos.	11-19 33516	11-19 34045	11-19 33315	11-19 33572	11-19 33600	11-19 43026	11-19 33112	11-19 33150
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.11-18 1356	TAYAL & CO. SR.NO.11-18 1293	TAYAL & CO. SR.NO.08-18 824	TAYAL & CO. SR.NO.04-19 0437

11. TRACEABILITY 90F BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	291673,291766	291691,291675
2.	Primary outer Spring	CMSTL	02-19 F03-N79-03A--(3046,2895,3117,3291)	02-19 F03-N79-03A--(4253,3301,2813,4453)
3.	Primary Inner Spring	CMRSK	05-19 F02-R91-- (5160,1702,5154,5122)	05-19 F02-R91(4066,2093,4232-4175) 1702,
4.	Primary Damper	GABRIEL	12-19 (13519,13516,13530,13538)	01-20 (13533,13505,13524,13503)
5.	Secondary Damper	IAI	01-20 (295129,295312)	11-19 (295118,295393)
6.	Lateral Damper	IAI	11-19 283712	05-19 283911
7.	Brake Cylinder	KBI	C(7937,6434,6549,7929)-K-29	C(7921,3886,3968,3873)-K-29
8.	Brake Caliper	KBI	C(3872,3965,3966,3875)-29	C(3861,3886,3968,3873)-29
9.	Brake Disc	KBI	24226782 0078-01/02,24226782 0079-01/02 24226789 0034-26/20,24226790 0042-26/20	24226790 0044-26/20,24226790 0043-26/20 24226783 0015-01/02,24226783 0044-01/02
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	SF(SARITA)		
13.	Traction lever make	J1		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	GMT		
16.	Leveling Valve	ESCORT	1910,1910	1910,1910
17.	Check Valve	ESCORT	1910	1910
18.	Anti roll bar Make	SF(SARITA)		
19.	Roll Link make	JUR/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	PACL	PACL-285-14,246-12,354-11,246-13	PACL-353-9,354-5,354-6,249-5
22.	Control Arm Lower	SF/RVE	SF-403,RVE,181119-4,281119-2	RVE281119-2,PACL-618-7,517-5,SF-1608
23.	Phonic Wheel	KBI	K 05-20	K 05-19

Signature of SSE/Bogie/QC





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DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 03-03-2020

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21/251

RLY	CR	COACH NO	204344/C	DATE OF DISPATCH	31-07-2020
Type	LWSCZAC	Shell No.	94104	DISPATCH TO	Sr.DME/PUNE
				FUR.NO.	SCZAC-11

FURNISHED BY M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module/Brake Panel	M/S-KBI	4798-03/20
2	Distribution valve	M/S-KBI	2020A10202
3	Pull box	M/S-KBI	
4	FIBA	M/S-KBI	9478/29,9360/29
5	Foot Step	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
6	Decoupling arrangement	M/S-KOHINOOR PVT LTD MUMBAI	
7	Floor board	M/S-TWPL MUMBAI	
8	PVC	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
9	UIC Vestibule (PPE)	M/S-SUNCREAST KOLKATA	
10	UIC Vestibule (NPPE)	M/S-SUNCREAST 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-CMT MECHANISED SYSTEM PVT LTD VADODRA	
14	Emergency Window	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
15	Lavatory/hopper Window	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
16	Roof Ceiling	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
17	Door way /gang way ceiling	M/S-AMIRCHAND ENGG WORK JUC	
18	Supply Air Duct	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
19	Partition panel (HONEYCOMB)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
20	Partition pillar	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
21	Side Wall panel	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
22	AC Trough	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
23	RMPU	M/S-DAULAT RAM	
24	Body Side Doors	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
25	Saloon sliding door (PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
26	Saloon sliding door (NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
27	Pocket Wall (PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
28	Pocket Wall (NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
29	Vestibule Door(PPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
30	Vestibule Door(NPPE)	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
31	Pantry partition	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
32	Pantry sliding door	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
33	Shutter Big	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
34	Shutter Small	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
35	Bio Tank	M/S-OMAX AUTOS LTD	
36	Pressurized flushing	M/S-IMI	
37	Auxiliary Water Tank	M/S-AMIT ENGG MOHALI	
38	Under Slung Water Tank (2X685L)	M/S-SHIVALIK FAST MOHALI	
39	Health Faucet	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
40	Lotah Filler Tap	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
41	Bib cock	M/s-JAQUAR PVT LTD ALWAR	
42	Lavatory Modules	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
43	Lavatory Doors	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
44	Fire Extinguisher	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
45	Automatic smoke & heat Detection with alarm System	M/S-SANROK ENTERPRISES	
46	Seat & Berth	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
47	Centre Table	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
48	Luggage Rack	M/S-CMT MECHANISED SYSTEM PVT LTD VADODRA	
49	RFID	NA	

SS/CC/MCF/RBL
वरिष्ठ अनुसंधान अभियंता
गुणवत्ता विभाग

रेडिंक ०, रायबरेली (लालगंज)





Modern Coach Factory Raebareilly
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Type	LWSCZAC	Shell No.	94104	DISPATCH TO	Sr.DME/PUNE
				FUR.NO.	SCZAC-11

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 30months 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 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.

[Signature]

SSE/QC/MCF/RBL

[Signature]

SME/AME/QC/MCF/RBL

[Signature]

Dy.CQM/MCF/RBL

गुणवत्ता विभाग
रेडि02-10, रायबरेली (लालगंज)

सहायक यंत्रिक आगंतुक/गुणवत्ता-1
Assistant Mechanical Engineer / Quality-1
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

जोगिंदर सिंह
उप मुख्य गुणवत्ता प्रबन्धक
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly





Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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DATE: 23.12.2019

PAGE 1 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR					
TYPE COACH		LWSCZAC		SHELL/COACH NO	
				204344/C	
RAILWAY		CR		ELECT.FIT DATE	
				31-07-2020	
MCF FUR.NO		SCZAC-11			
Sr no	Description of tests				Remarks
1.0	REFERENCE SPECIFICATION : L 446				
1.1	AIR CONDITIONING TEST : ELPS/TP/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			29.44 Cub mtr/min	OK
3.2	Return Air			64.21 Cub mtr/min	OK
3.3	Exhaust Air			17.11 Cub mtr/min	OK
3.4	Conditioned Air			205.57 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 :21.2 ⁰ C NPP Side :20.8 ⁰ 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
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PAGE 2 OF 5

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

ELECTRICAL TEST CERTIFICATE FOR LHB AC CHAIR CAR COACH

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	WORKING OF READING LIGHTS	OK
11.0	WORKING OF COMPARTMENT LIGHT	OK
12.0	WORKING OF PANTRY EXHAUST FAN	OK
13.0	WORKING OF PUBLIC ADDRESSING SYSTEM (PAS)	OK
14.0	WORKING OF ANNUNCIATOR SYSTEM	OK
15.0	WORKING OF WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
16.0	WORKING OF 60KVA TRANSFORMER	OK
17.0	WORKING OF 5 KVA TRANSFORMER	OK
18.0	WORKING OF REGULATED BATTERY CHARGER	OK
19.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
20.0	SAFETY :	
20.1	OHP :	OK
20.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
20.3	LP/HP GAUGE	OK
20.4	HYGROSTAT	OK
20.5	CONTROL CIRCUIT	OK
20.6	POWER CIRCUIT	OK
20.7	REFRIGERANT USED R 407C	OK

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PAGE 3 OF 5

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC Package unit Make : DAULAT RAM Sr no :- (NPP Side): 20B/RMPU/05/424 (PP Side): 20B/RMPU/05/423 CPU No: SA 20.03.930	RDSO/PE/SPEC/AC/0061 2005,REV-1,TYPE-1with RDSO/PE/MS/AC/077-2018 (rev-0) or Latest.	02
02.	Provision of Switch Board Cabinet (Power Panel) Make : RSI Sr no.: 20/02/447765/33	As per spec no. RDSO/PE/SPEC/AC/0184- 2015(REV.0)	01
03.	Provision of 4.5 Kw Under Slung type Constant Voltage Regulated battery charger cum Emergency Charger unit. Make : WAVES Sr no: W4K5B 201492	RDSO/PE/SPEC/AC/0183 (REV '1')	01
04.	Provision of 60KVA TFR 750/415 V,3-Phase,4- Wire,Vector configuration-STAR-STAR. Make: VIMAL Sr. No.: VTC-R-3089-LHB-4347	As per spec no. RDSO/PE/SPEC/AC/0080- 2007,Rev.-1 with RDSO letter no. EL/7/1/108/Transformer, dated 31/03/15 or Latest.	01
05.	Provision of 5 KVA Transformer. Make: WAVES Sr. no.: WLDT5E 20884	As per EDTS-366 ,Rev-Nil or Latest.	01
06.	Provision of Capacitor Bank. Make : RICHMOND Sr no : 341739	As Per EDML 130,Type- II,Rev.-1,Cor-3	01
07.	Provision of Pump equipment with PLC controller & pump box Make: KIND Sr no: KIND/ASY/0031 Pump 1: 20050131 Pump 2: 20050132 P/Cntrl: 20050026-KIND	As per spec no. EDTS 186 Rev.-A,AM-2,Corr-2 or latest.	01 Set
08.	Provision of Single Inlet Radial Blower, 415V/03Ph/185W/ 1045 Cub mtr/hr discharge from Pantry room. Make: INTEG	As per EDTS 331,Corr- 3,Type-II. Cat. no. 64D180BD,Rev nil.	01
09.	Provision of Double inlet centrifugal blower assembly complete with mounting bracket. Make: EYYANI	As per EDTS-331,Cor-1,2 & 3,Type-1 or Latest.	02
10.	Provision of Composite Pantry for LHB EOG AC chair car(Hot case, Deep freezer & water Boiler) Make: SPECTRUM Sr. no.: SSFT-CMT-2T-011	As per EDTS-331,Rev- B,Cor-2 or Latest	01 Set

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PAGE 4 OF 5

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr. no.	Description	Drg/Spec no.	Quantity per Coach
11.	Provision of LED Light fitting for Passenger area. Make: DR AUTO	As per Drg. No. LW76100(Type "O") (18 Watt) Spec no. RDSO/PE/SPEC/TL/0091-2016,Rev-1	11
12.	Provision & mounting of Doorway/ Gangway light Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N & Drg no. LW 76099(9 Watt)	07
13.	Provision of LED Light fitting with Night Light.(Pantry Room). Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016 Rev-1. Drg. No. LW76091 Type 'M'.(9 Watt+ 1 Watt)	01
14.	Provision of Lavatory Light Fitting assembly. Make: RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-D As per drg no. LW 76001,Alt nil.	03
15.	Provision of Cable Jacket ,Size Nominal width 25mm ,Length -1000 mm	As per drg no. EDTS 0138,Rev-nil,Corr.-1 Item 9	01 Set
16.	Provision of PACIL Assly. Make: KAVERI	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1.Drg no. LW 76098 Type-I (3 Watt)	02
17.	Provision of WC Light Make: DHINGRA	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1.Drg. no. LW76097 Type-H1 (1Watt)	02 Set
18.	Provision of Cable Binders.	As per CC76129 or as approved of OEM by MCF/RCF.	01 Set
19.	Provision of Razor socket. Make: N/A	As per cat no EDML 047, Rev nil.	N/A
20.	Provision of Accidental Emergency Light. Make: DR AUTO	As per RDSO/PE/SPEC/AC/0180-2016(Rev-0),Type-II.Drg. no. RDSO/PE/SK/TL/0181-2016(Rev-0) Sheet no. 1 & 2 or Latest.	02
21.	Provision of Call Bell/Annunciator. Make: V.S.INSTRUMENT.	As per EDTS-370, Rev-0, AM-1 or Latest.	01 Set
22.	Switch Socket Combined 5 Pin,6A,110VAC plate assembly Make: SKS	As per EDML-064, Rev-B. Table-7 or Latest.	18
23.	Provision of LED Reading light for Three seater. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091,Rev-1.Drg. no. LW76103,Type-Q2 (2Watt)	14
24.	Provision of LED Reading light for Two seater. Make: ENSAVE	As per RDSO/PE/SPEC/TL/0091,Rev-1.Drg. no. LW76103,Type-Q1 (2Watt)	18

[Signature]

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MCF/RBL



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PAGE 5 OF 5

ROLLING STOCK CERTIFICATE OF LHB AC CHAIR CAR COACH

Sr no	Description	Drg/Spec no.	Quantity per Coach
25.	Plug & socket distribution board 20A,240 V AC With MCB for water Boiler and soup warmer. Make: SSK	As per Drg. No. LA 72200,Alt-A or Latest.	02
26.	Provision of External supply Socket 125A/415V/IP67/5-Pole (3Ph+1N+1E) complete with pilot contacts. Make: MV	As per 1948036 /UIV4125-6.	02
27.	Provision of High Capacity Inter-Vehicular Coupler Unit (ZS Coupling) (500 A,750 V,3 ph,50 Hz). Make: 1.(NPP): S.INTERNATIONALS 2.(PP): S.INTERNATIONALS	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	02
28.	Provision of Wheel Set Earthing Equipment. Make- NPP: PRIME ELECT. PP: PRIME ELECT.	As per spec no. EDTS 101 ,Rev.-C,AM-1,Corr-	2
29.	Provision of Terminal connector complete.	As per EDML-033, Rev.-D,MCF/RBL-Corr-2 or latest.	01
30.	Battery box for LHB coaches. Make: HITECH	As per drgno 1 10113 0 76 700 005,Alt C	01
31.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : HBL Lug date : 06/19	EDTS 129,Rev nil	01 Set
32.	Battery fuse box +ve Make : RICHMOND	As per LW 71001,Alt-G	01
33.	Battery fuse box -ve Make : RICHMOND	As per LW 71002,Alt-G	01
34.	Provision of IVC dummy Socket assembly	As per Drg. No. LW71302,Alt-nil	02
35.	Provision of Feeder Junction Box. Make: MV ELECTRO SYSTEMS	As per EDTS-328,Rev-C,AM-4,TYPE-II,COR-2.	04
36.	Provision of Anti Skid Disk Brake System.(WSP) Make : KNORR Sr no : 0120064147	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS"	01 Set
37.	Public addressing System Make: AHUJA	As per EDTS-173,TYPE-V,CORR-2,REV-A,AM-3 or Latest.	01 set

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

गुणवत्ता नियंत्रण
आरेडिंका / लालमज / रायबरेली
S.S.E./Elect-QC/M.C.F./I.I./099

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

