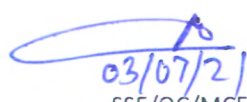
		Modern Coach Factory Raebareli आधुनिक रेल डिब्बा कारखाना, रायबरेली			DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018		
ROLLING STOCK CERTIFICATE (DEEN DAYALU) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21 /1262							
RLY	WCR	COACH NO	215571/C			DATE OF DISPATCH	15-Mar-21
Type	LWS	Shell No.	20F212	DISPATCH TO	Sr.DME/C&W/JBP	FUR.NO.	DDG-652
1. Railway Board's Order No. 2020/M (C)/142/2, Date- 09.07.2020 2. Tare weight of coach : 40.66 Tonnes 3. Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL 4. Special feature:							
S NO	ITEMS					MAKE/SUPPLIER	
A	Cushion transverse side luggage rack which can serve as seat during rush					M/S-CMT VADODARA	
B	Honey comb partition frame.					M/S-CMT VADODARA	
C	DGFRP/GFRE paneling.					M/S-CMT VADODARA	
D	Lavatory with DGFRP/GFRE paneling.					M/S-CMT VADODARA	
E	Additional Hand hold.					M/S-CMT VADODARA	
F	Counter top wash basin.					M/S-CMT VADODARA	
G	Gel coating & Anti Graffiti measures.					M/S-CMT VADODARA	
H	Air spring in secondary suspension (capacity-140KN).					M/S-RESISTOFLEX	
I	Fire Extinguishers					M/S-A-ONE	
J	Vestibule ends for inter-coach movement of passenger and the service staff (LWSCN type End wall)						
K	Choke of 5/6 mm in DV side replace with 9 mm in both type (KBI & Faiv.) letter no. MC/LHB/Brake, DT. 27.09.18						
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					NPP/PP	1100/1101
6. TRACEABILITY OF SHELL ITEMS:							
S NO	ITEM	MAKE/SUPPLIER	SERIAL NO				
1	Under frame	Front	PP END	M/S-OMAX AUTO	----		
		Part	NPP END	M/S-OMAX AUTO	----		
		Complete	MCF/RBL-AIRCON	20F212			
2	Lav. side wall	PP END	M/S-ATHANCY ALD	LAV.1	-----	LAV.2	-----
		NPP END	M/S-ATHANCY ALD	LAV.3	-----	LAV.4	-----
3	Side wall	LH SIDE	MCF/RBL-V4U LKO	70			
		RH SIDE	MCF/RBL-V4U LKO	70			
4	End wall	PP END	M/S-KAPORO ENGG	-----			
		NPP END	M/S-KANSAL	-----			
5	Roof	M/S-UNIVERSAL	46				
6	Centre Buffer Coupler	M/S-FRONTIETR	PP END/ NPP END	93P1/70P2			
7. AIR BRAKE 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 .	6 – 10 sec.	8 Sec			
		Max. pressure in BC	3.0 ±0.15 kg/cm ² .	3.0 kg/cm ²			
		All Brake are applied	OK	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	VIBGYOR	M/S-VIBGYOR	76/88	12-Mar-21	
2	Insulation	Satisfactory					


03/07/21
SSE/QC/MCF/RBL
वरिष्ठ निरीक्षक
गुणवत्ता विभाग
रेलवे कारखाना, रायबरेली (लालगंज)



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 - 1262**

RLY	W	C	R	-	Coach No.	2	1	5	5	7	1	/	C	-	DATE OF DISPATCH	1	5	0	3	2	0	2	1
-----	---	---	---	---	-----------	---	---	---	---	---	---	---	---	---	------------------	---	---	---	---	---	---	---	---

DISPATCH	Sr.DME/C&W/IBP	Type	L	W	S	-	-	-	Shell No.	2	0	F	2	1	2	FUR .NO	DDG- 652
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202832				202831			
Bogie Type	LWS				LWS			
Frame no.	A.M.L - 341				A.M.L - 320			
Bolster no.	MCF/RBL/LS- 3040				MCF/RBL/LS-5 - 3227			
Axle No	21 C -4028 RWF		21 C - 4231 RWF		21 C - 3686 RWF		21 C - 4429 RWF	
Wheel Dia	917.578	917.578	917.428	917.515	917.376	917.571	917.441	917.519
Wheel Disc No	TZ 09-20 32784-0SD7	TZ 09-20 32782-0SF7	TZ 09-20 32688-0SF7	TZ 09-20 86170-9WK4	TZ 06-20 18104-0PLO	TZ 09-20 33016-0TE1	TZ 09-20 31124-0TF0	TZ 09-20 31120-0TE0
R.B. Nos.	06-20 412260	09-20 428218	06-20 411757	06-20 429300	09-20 426125	09-20 426191	09-20 430007	09-20 429606
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.	RESISTROFLEX 07-20 15463	RESISTROFLEX 06-20 15260	RESISTROFLEX 07-20 15475	RESISTROFLEX 06-20 15191

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	ESCORT	6773,6934	6912,6911
2.	Primary outer Spring	CMAFI	06-20-1100-(261,181,144,231)	06-20-1100-(179,168,248,184)
3.	Primary Inner Spring	CMAFI	06-20-1101-(70,117,111,68)	06-20-1101-(87,30,31,100)
4.	Primary Damper	IAI	01-20 (299147,300288,299608,300474)	01-20-(299558,298393,301315,301297)
5.	Secondary Damper	IAI	01-20 (295565,295696)	01-20 (295566,295629)
6.	Lateral Damper	KONI	04-19 02181	04-19 01888
7.	Brake Cylinder	ESCORT	61632,62436,62306,61830	61829,62307,62438,61631
8.	Brake Caliper	ESCORT	38875,39158,39066,38929	38928,39067,39159,38874
9.	Brake Disc	KBI	24241014-(0078)-48-20, 24241015-(0049,0050,0058)-48-20	24243860-(0070,0069)-01-21, 24247101-(0041,0040)-03-21
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	GMT		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	GMT		
15.	Ball joint traction centre	BONY		
16.	Leveling Valve	FAV	G20-(736,689)	K19-(950,880)
17.	Check Valve	FAV	F20 - 080	M19- 072
18.	Anti roll bar Make	SF		
19.	Roll Link make	EMSON+GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SFL	H-(112,89,119,62)	H-(151,17,480,15)
22.	Control Arm Lower	SFL	H-(263,187,92,54)	H-(96,74,126,32)
23.	Phonic Wheel	FAV	FT/KEP- 548	FT/KEP- 548

Signature of SSE/Bogie/QC



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 (DEEN DAYALU)
Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21


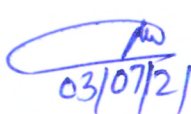
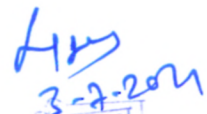

RLY	WCR	COACH NO	215571/C		DATE OF DISPATCH	15-Mar-21
Type	LWS	Shell No.	20F212	DISPATCH TO	Sr.DME/C&W/JBP	FUR.NO. DDG-652

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-ESCORT	2021020853
2	Distribution valve	M/S-ESCORT	2102A853
3	Pull box	M/S-KBI	
4	FIBA	M/S-KBI	11594/29,11597/29
5	Foot Step	M/S-FABRICON INDS KOLKATA	
6	Decoupling arrangement	M/S-PULSAR INDS KOLKATA	
7	Floor board	M/S-SHREE RAM PNL	
11	UIC Vestibule (NPPE)	M/S-SUNCREST KOLKATA	
12	Gangway bridge mounting (PPE)	M/s- MAHAVEER METAL WORKS, KXH	
13	Gangway bridge mounting (NPPE)	M/s- MAHAVEER METAL WORKS, KXH	
14	Body Side Window	M/S-CMT VADODARA	
15	Emergency Window	M/S-CMT VADODARA	
16	Lavatory/hopper Window	M/S-CMT VADODARA	
17	Roof Ceiling ACP	M/S-CMT VADODARA	
18	Door way /gang way ceiling ACP	M/S-CMT VADODARA	
19	Body Side Doors	M/S-JVR LDH	
20	Vestibule Door(PPE)	M/s-JBM FARIDABAD	
21	Vestibule Door(NPPE)	M/s-JBM FARIDABAD	
22	Bio Tank	M/s-RASANDIK-02 NOS+JSL LIFE -02 NOS	
23	Pressurized flushing(ele.pneu.)	M/S-OASIS	
24	Over head water tank (4x390L)	M/S-FABRICATORS	
25	Bib cock/controlled discharge tap	M/S-JAQUAR ALWAR	
26	Lavatory Doors	M/S-CMT VADODARA	
27	Fire Extinguisher	M/S-A-ONE	356,357
28	Water purified (02 nos)	M/S-CMT VADODARA	
29	Seat & Berth	M/S-CMT VADODARA	
30	Luggage Rack	M/S-CMT VADODARA	
31	Light Luggage Rack	NIL	
32	Ventury grill	M/S-CMT VADODARA	
33	RFID	NIL	

03/07/21
SSE/QC/MCF/RBL

वरि०अनु० अभियंता
गुणवत्ता विभाग
मोडिफाईड, रायबरेली (लालगंज)

		Modern Coach Factory Raebareilly आधुनिक रेल डिब्बा कारखाना, रायबरेली		DOC NO.: MCF/RBL/QMF 8002 REV NO: 01 DATE: 17.04.2018		
ROLLING STOCK CERTIFICATE (DEEN DAYALU) Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2020-21						
RLY	WCR	COACH NO	215571/C	DATE OF DISPATCH		15-Mar-21
Type	LWS	Shell No.	20F212	DISPATCH TO	Sr.DME/C&W/JBP	FUR.NO. DDG-652
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:						
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 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.						
 03/07/21 डी.एम. मधियंता गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)		 3-7-2021 डी.एम. मधियंता गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)		 3/7 डी.एम. मधियंता गुणवत्ता विभाग रेडिओ, रायबरेली (लालगंज)		
SSE/QC/MCF/RBL		SME/AME/QC/MCF/RBL		Dy.QM/MCF/RBL		



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WARRANTY CERTIFICATE

To,

DY.CME/FUR/PAINT
MODERN COACH FACTORY
RAEBARELI, LALGANJ- 229120

Date:- 13/03/21

SUBJECT: -PERFORMANCE WARRANTY CERTIFICATE

REF: PO NO: 06190055100701 dated 20.05.2020

NAME OF WORK: SUPPLY AND APPLY OF EXTERIOR PAINT OF LHB TYPE SEEN DAYALU COACHES

Dear Sir,

With reference to above, we do here by confirm the warranty for Three years from the date of application of the delivered below mention coaches vide your above referred purchase order after application & date inspection at your end.

SL.NO	SHELL NO	FURNISHING NO	COACH NO	RAILWAY NO	DATE OF COMPLETION
24	LWSDG 20F212	DDG 652	215571	WCR	23/02/2021 12/03/2021

The warranty is applicable from date of despatch against the below mention defects as per RDSO Specification no. M&C/PCN/100/2013.

Gloss level value of applied paint initial 85unit (on the date of painting) and minimum 80% 70% 860N of initial gloss after one year, two years, three years respectively from the date of application.

Decolonization of paint film.
Cracking of paint film
Peeling of paint film
Blistering of the paint film



Thanking You

For Vibgyor paints & chemicals Pondicherry
Authorized Signatory

Factory : S-51, Phase III, Sipcot Industrial Complex, Nellikuppam, Ranipet - 632 405.
Ph : +91-4172-241478, Fax : +91-4172-242478, E-mail : vpcpdyr@yahoo.in, ramuvibgyor@yahoo.in

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आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

PAGE 1 OF 4

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB EOG NON AC GS COACH
(ANTYODAYA & DEENDAYALU).

ELECTRICAL TEST CERTIFICATE FOR LHB EOG NON AC GS COACH.

TYPE COACH	LWS/DDG	SHELL/COACH NO	215571/C
RAILWAY	WCR	ELECT. FIT DATE	13-03-2021
		MCF FUR. NO.	DDG - 652
Sr. no.	Description of tests		Remarks
1.	WORKING OF COMPARTMENT LIGHTS.		OK
2.	WORKING OF MOBILE CHARGING SOCKETS		OK
3.	WORKING OF ACCIDENTAL EMERGENCY LIGHTS& PACIL		OK
4.	RAILWAY CARRIAGE FAN		OK
5.	WHEEL SLIDE PROTECTION SYSTEM (WSP)		OK
6.	WORKING OF 9 KVA TRANSFORMER		OK
7.	WORKING OF REGULATED BATTERY CHARGER/EMERGENCY BATTERY CHARGER.		OK
8.	SAFETY :		--
8.1.	FUSES AND THEIR RATING		OK
8.2.	CONTROL CIRCUIT		OK
8.3.	POWER CIRCUIT		OK

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01

DATE: 29.06.2020

PAGE 2 OF 4

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES
(ANTYODAYA & DEENDAYALU).

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
01.	Fitment of Switch board cabinet.(set of panel) Make/Sr.no.: SSK On Board: 20/06/001 HT Panel: 20/06/009	EDTS 333, Rev`01`.Am-1	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make : PANTRONICS Sr no.: PAN 20018744	RDSO/PE/SPEC/TL 0158, 2010, Rev`0`,Ty I.	01
03.	Mounting of 09KVA TFR.	As per drg no 1.10113.0.76.300.001,Alt -B.	OK
04.	Provision of wire rope assembly for Transformer.	As per EDML-152, Rev.-Nil.	OK
05.	4.5 Kw Under slung type Constant Voltage Regulated Battery charger cum Emergency battery charger Make: SIGNOTRON Sr. no.: 02201216	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.-1)	01
06.	Provision of Feeder Junction Box Make : MV ELECTROSYSTEMS	EDTS-328 REV-C,AM-4,Type-II,COR-2	01 SET
07.	Provision of IVC dummy Socket assembly.	As per Drg. No. LW71302,Alt-nil	01 SET
08.	Battery fuse box +ve Make : INDORAIL	As per LW 71001,Alt- H	01
09.	Battery fuse box -ve Make : AECO	As per LW 71002,Alt-I	01
10.	Provision of Battery boxes/ Cradles. Make: HITECH	As per Drg. No. 110113.0.76.700.005 W/O item 5,22,23,26 & 27,Alt-C or Latest.	01
11.	Provision of batteries Type:110 V, 120 AH VRLA SMF Battery Set. Make: AMARA RAJA Lug Date: 06/20	As per RDSO/PE/SPEC/AC/0009-2014 (Rev-2) with inner cell connectors or Latest.	01

Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli





Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 01


DATE: 29.06.2020

PAGE 3 OF 4

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES
(ANTYODAYA & DEENDAYALU).

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
12.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: SARIA	As per Drg. No. ICF/SK-7-6-158, alt-g. RDSO/PE/SPEC/TL/0021-2005 (Rev-3) with RCF annex-1, am-1.	30
13.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 .Type-B1. Drg. No. CC76453.	28
14.	Fitment of LED Light fittings for Lavatory Lights. 9 Watt. Make: RT VISION	As per RDSO/PE/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-D. Drg. No. LW76092.	04
15.	Fitment of LED Light fittings for PACIL. Make: AGASTYA	As per RDSO/SPEC/TL/0091-2016, Rev-1 with RCF Annex-1 Type-I. Drg. No. LW76098.	02
16.	Fitment of Accidental Emergency Light (AEL) Make: INTEG	As per RDSO/SPEC/AC/0180-2016, Rev-0, Type-II.	04
17.	Provision of Cable binder	Drg. No. CC76120, Item - 1, 2, 3. 100mm, 200mm, 300mm respectively.	OK
18.	Provision of Cable Jacket System.	EDTS-138, Cor-2, Item-5, 7, 8, 9, 11.	OK
19.	Provision of Switch plate assembly along with mobile charging sockets. Make: SSK	EDML-086, Rev-6, Am-1, Table-1, Item-1.	10



Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli

	<p>Modern Coach Factory Raebareli आधुनिकरेलडिब्बाकारखाना, रायबरेली</p>	<p>DOC NO.: MCF/RBL/QEF/8001 REV NO: 01 DATE: 29.06.2020</p>
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PAGE 4 OF 4

ROLLING STOCK CERTIFICATE OF LHB/EOG NONAC GS COACHES
(ANTYODAYA & DEENDAYALU).

Sr. no.	Description	Drg./Spec no.	Quantity per Coach
20.	Provision of Switch plate assembly along with mobile charging sockets. Make: SSK	EDML-086, Rev-6, Am-1, Table-1, Item-2.	10
21.	Provision of High Capacity Inter – Vehicular Coupler Unit (ZS Coupling) (500 A, 750 V, 3ph, 50 Hz). Make: 1.(NPP): PRIME ELECT. 2.(PP): PRIME ELECT.	As per Spec. no. RDSO/PE/SPEC/AC/0177(Rev.-0)-2013 with annexure-A, B.	1 SET
22.	Mounting of Inter Vehicle coupler	As per drg no.1.10113.0.74.000.001,Alt-B	OK
23.	Provision of Wheel Set Earthing equipment. Make:- NPP: DARSHAN ENTERPRISES PP: DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	1 SET
24.	Provision of Anti Skid Disk Brake System.(WSP) Make : ESCORTS Sr no : 200600-62308-0071	As per MDTs 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or" JWL-DAKO-CZ"	01 SET

	
<p>SSE/EL/QC वरिष्ठ अनुभाग अभियन्ता गुणवत्ता नियंत्रण आधुनिकरेलडिब्बाकारखाना / लालगंज / रायबरेली S.S.E /Elect-QC/M.C.F./LLJ/RBL</p>	<p>AWM(ELECT.)MCF/RBL SEE(P)/MCF/RBL</p>