



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/2019-20/772

RLY	N	W	R	Coach No.	1	9	6	4	6	1	/	C	DATE OF DISPATCH	2	3	-	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	0	7	7	FUR.NO.	L3T-1255
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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) 1105 (NPPE) 2) 1105 (PPE)

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/s-SICO	227
		NPP END M/s-SICO	227
	Complete	M/s-SICO	227
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 MCF/RBL	143/01
		RH SIDE MCF/RBL	143/02
4.	End wall	PP END M/s-OMEX REWARI	---
		NPP END M/s-OMEX REWARI	---
5.	Roof	M/s-PIL	137
6.	Centre Buffer Coupler	M/S- FAIVELEY	PP END F19073 NPP END F19071

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	09 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-BERGER	SUPPLY & APPLY	90/89	12.08.19
2.	Insulation			Satisfactory		

वरिष्ठ अधिकारी
SSE/QC/MCF/RBL

रेडिओका ० रायबरेली (सहायक)



आधिकारिक / प्रमाणित



MODERN COACH FACTORY, RAEBARELI

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DISPATCH	Sr.DME/C&W/JP	Type	L	W	A	C	C	N	Shell No.	9	3	0	7	7	FUR.NO	L3T-1255
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9. DETAIL OF BOGIES:

ITEMS	PP Side				NPP Side			
Bogie No	196079				196080			
Bogie Type	FIAT				FIAT			
Frame no.	AML-059				AML-063			
Bolster no.	APEX-43				APEX-46			
Axle No	19 R - 1742 RWF		19 R - 2764 RWF		19 P - 1507 RWF		19 R - 1182 RWF	
Wheel Dia	917.553	917.45	917.685	917.473	917.651	917.571	917.623	917.584
Wheel Disc No	DP 05-19 46581-9PJ3	DP 05-19 41704-9PH3	DP 05-19 23695-9MG4	DP 05-19 30975-9MK7	DP 03-17 30976-9ML5	DP 05-19 49316-9PG9	DP 03-17 30974-9MG3	DP 05-19 46583-9PJ3
R.B. Nos.	07-18-42063	05-18-40215	07-18-41903	02-18-16500	02-18-17141	05-18-40035	06-18-16507	05-18-40208
CT R B Make	SKF		SKF		SKF		SKF	

10. SECONDARY SUSPENSION LOAD DEFLECTION VALUES :-

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMFSK01-19- 8836-456-68	CMFSK05-18- 8513-007-411	CMFSK01-19- 8836-456-70	CMFSK05-18- 8513-007-374	CMFSK01-19- 8836-456-84	CMFSK05-18-8513- 007-449	CMFSK01-19- 8836-456-96	CMFSK05-18-8513- 007-444
Compressed Ht. at Tested Load	515	465.5	515	466	514	466	513	465
Alignment deviation (mm)	10	7	13	7	9	7	8	7

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KBI	12265,12276	14659,13199
2.	Primary outer Spring	CMSTL	02-19-03A(3958,7129,4147,4416)	02-19-03A(4352,4124,4129,4378)
3.	Primary Inner Spring	CMAFJ	01-19-7143(74,67,251,53)	01-19-7143(252,261,84,87)
4.	Primary Damper	KONI	03-19 (03389,00590,02476,03137)	03-19 (02449,00730,03239,00764)
5.	Secondary Damper	IAI	01-19 (237976,238262)	01-19 (238192,237964)
6.	Lateral Damper	KONI	03-19 00510	03-19 00475
7.	Brake Cylinder	KBI	B(6939,6114,6009,6932)K29	B(8298,7137,6088,6902)K29
8.	Brake Caliper	KBI	B(4104,4309,4310,4101)-29	B(5361,5270,434,4103)-29
9.	Brake Disc	KBI	24193642 0054-27/19,24193656 0067-24/19 24193642 0061-28/19,24173128 0068-08/19	24193642 0050-28/19,24193642 0052-27/19 24193656 0070-29/19,24193656 0068-29/19
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR/BASANT		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SARITA		
14.	Ball joint traction lever	AR		
15.	Ball joint traction centre	AR		
16.	SEC. Rubber pad	PPI		
17.	Rubber spring Make	PPI		
18.	Anti roll bar Make	EMSON		
19.	Roll Link make	SARITA/AR		
20.	Fork make	EMSON		
21.	Control Arm Upper	SF	47,139,109,43	69,184,18,482
22.	Control Arm Lower	SF	285,SF,63,58	68,SF,88,51
23.	Phonic Wheel	KNORR	K-07-19	K-07-19

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	0	7	7	FUR.NO.	L3T-1255		

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	3243 29/19
3.	Pull box	M/S- KBI, FARIDABAD	2019G8288
4.	FIBA	NA	
5.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
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-MSL (MOBILITY SOLUTION LTD.) MOHALI	
17.	Door way /gang way ceiling	M/S-AMIRCHAND ENG WORKS JALANDHAR	
18.	Supply Air Duct	M/S- HANSPAL COACH PRODUCTS, KXH	
19.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
20.	Partition pillar	M/s- MOHAN TECH KXH	
21.	Side Wall panel	M/S-ALEX OVER SEAS PVT LTD KXH	
22.	AC Trough	M/s- FIBRO PLASTIC PVT. LTD.	
23.	Body Side Doors 1,3	M/S- JVR INDUSTRIES, LDH	
24.	Body Side Doors 2,4	M/S- SUKATA TRACTOR PARTS PVT.LTD. CDG	
25.	Compartment Door (PPE)	M/S- KALSI FAB PVT LTD, KXH	
26.	Compartment Door (NPPE)	M/S- KALSI FAB PVT LTD, KXH	
27.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
28.	Vestibule Door(NPPE)	M/S- JBM INDUSTRIES, FARIDABAD	
29.	Bio Tank	M/S- JSL LIFE STYLE LTD. BAHADURGARH	
30.	Auxiliary Water Tank	M/S- AMIT ENG. MOHALI	
31.	Under Slung Water Tank (2X685L)	M/S- AMIT ENG. MOHALI	
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- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
37.	Lavatory Doors	M/S- CMT MECHANISED SYSTEM PVT.LTD.,VADODARA	
38.	Fire Extinguisher	M/s-SAFETY PLUS ENGG	
39.	Automatic smoke & heat Detection with alarm System	M/s-SANROK ENTER PRISES	PPE-2230 ,NPPE-2218
40.	Seat & Berth	M/S ANANYA RAIL COACH COMPONENTS IND.	
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.-104972-104971

SSE/QC/MCF/RBL

२०६०३० रायबरेली (लालगज)



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DISPATCH TO		Sr.DME/C&W/JP			Type	L	W	A	C	C	N	Shell No.	9	3	0	7	7	FUR.NO.	L3T-1255		

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	REFERENCE & PERIOD OF TRIAL
			Frequency	

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.

SSE/QC/MCF/RBL गुणवत्ता विभाग रेल डिब्बा कारखाना, रायबरेली (जाल फंज)	SME/QC/MCF/RBL वरिष्ठ यांत्रिक अभियंता/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





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	196461/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	19.96 Cub mtr/min		OK
3.2	Return Air	71.05 Cub mtr/min		OK
3.3	Exhaust Air	6.49 Cub mtr/min		OK
3.4	Conditioned Air	164.31 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 :22.8°C NPP Side :21.2°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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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 R 407C	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 : AMIT ENGG. Sr no of RMPU (NPP side): 3836 H Sr no of RMPU (PP side) : 3742 G Sr no of Microprocessor: AE 19.08.640	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ABROL Sr no : 077-08-2019	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2019/08/0080 Sr no.1 : 19080374 Sr no.2 : 19080457 Sr no.CPA : 2019/08/035-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 : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : DR AUTO	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : K.LITE	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
11.	Passenger alarm coach indication light Make : KAVERI	LW 76005,Alt-e	02

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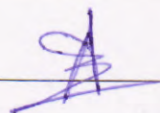
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01 SET
14.	Terminal connector Make : WAGO	EDML 037,Rev`a`	1 SET
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 : SSK	LW 74202 EDML 0,64,Rev-A,AM-1 Item 07.	18
16.	Provision of 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.	54
17.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am-1,2&3	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 : 01/18	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 : AECO	As per LW 71001,Alt-F	01
21.	Battery fuse box -ve Make : ISGPL	As per LW 71002,Alt-F	01
22.	Reading light for longitudinal berth (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/009 1-2016,REV-01, TYPE-F1	9


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Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Reading light for upper berth Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F2	27
24.	Reading light for transverse berth (RHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F3	18
25.	Reading light for berth transverse (LHS) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-F4	18
26.	Emergency battery charger Make : BHASIN Sr no: 0713959	EDTS 163,Rev `c` corg.-2&3	01
27.	Regulated battery charger Make : EEC Sr no: 01190092	RDSO/PE/SPEC/AC/0183 (REV -0)	01
28.	Provision of 5KVA TFR Make : WAVES SL.no : WLDT 5L 18401	As Per EDTS-366,REV-NIL & CC-71510	01
29.	Provision of capacitor Bank Make : KONTACT SL.no : KT-879	As per EDML-130 Rev-1,Corr-1	01
30.	60KVA transformer Make : VIMAL Sr no : VTC-R- 3089 LHB-1339	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
31.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
32.	Feeder junction boxes. Make : NEC	EDTS-328 REV-C	01 set
33.	Wheel set earthing equipment. Make : CHANDA & CHANDA	EDTS101,REV-C,AM-1	02 sets
34.	Wheel Slide Protection System (WSP) Make : KNORR Sr no : 0119151716	M/s : KNORR	01 set
35.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per 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./LJ/RBL

AWM(ELECT.)/MCF/RBL

SEE(P)/MCF/RBL

वरिष्ठ विद्युत अभियन्ता

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