



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002/PC

REV NO: 00

DATE: 10.10.2017

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/ 18-19/429

RLY	W	R	-	Coach No.	1	8	8	5	7	1	/	C	DATE OF DISPATCH	2	5	-	0	8	-	1	8
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DISPATCH TO	SR.DME/BCT	Type	L	W	L	R	R	M	Shell No.	8	8	0	4	2	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 Dated.- 16-05-2018
2. Tare Weight of Coach : 53.2 Tonnes
3. Carrying Capacity : (a) Seating: NIL (b) Sleeping: NIL (c) Luggage: 3.9 tones

4. 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) 1105 (NPPE) 2) 1100 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Underframe	Front Part	PP END M/S E.c.blades & tool pvt. Ltd CDG 267
		NPP END	M/S E.c.blades & tool pvt. Ltd CDG 267
	Complete	M/S E.c.blades & tool pvt. Ltd CDG	267
2.	Lav.side wall	MCF/RBL(CONTRACTOR V4U)	LAV.1 81 LAV.2 82
		MCF/RBL(CONTRACTOR V4U)	LAV.3 83 LAV.4 84
3.	Side wall	LH SIDE MCF/RBL	20
		RH SIDE MCF/RBL	20
4.	End wall	PP END M/S Omax auto gurgaon HR	-
		NPP END M/S AMIT ENG.	02
5.	Roof	M/S DTL ancillaries ltd pune	42
6.	Centre Buffer Coupler	M/S Escorts ltd railway equipment FBD	PP END 4856 NPP END 4850
7.	Buffers	M/S Raneka inds.ltd. DHAR	N.A NPP END 88042

6. AIR BRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
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	08sec. 3.0 kg/cm ² OK
2.	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	Exhaust BP @ 0.1kg/cm ² /Sec. after 06 Sec.	Brake must apply	OK
4.	Handbrake(Parking brake)for generator car	1.Apply hand brake 2.Release hand brake	1.Hand Bk. indicator should be red 2.Hand Bk. indicator should be green	OK OK

7. FIRE TESTING:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED VALUE
1	generator car	Smoke detection	1.controller should display smoke in zone 1,2 2.strobe light & hooter should activate	OK
		Heat detection	1.controller should display smoke/heat in zone 1,2 2.strobe light & hooter should activate	OK

8. PAINTING DAETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-Nerolac	SUPPLY & APPLY	76/88
2.	Insulation			Satisfactory	

S. S. S. S. S.
 गुणवत्ता विभाग
 रेलवे कारखाना, रायबरेली (लालाबाग)



MCF/RBL



MODERN COACH FACTORY, RAEBARELI

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO.: 01

DATE: 16.05.2016

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Coach No.	1	8	8	5	7	1	/	C	-	DATE OF DISPATCH					2	5	.	0	8	.	1	8		
RLY	N	E	R	-	Type	L	W	L	R	R	M	Shell No.	8	8	0	4	2	-	-	-	-	-	-	-

8. DETAIL OF BOGIES :

ITEMS	NPP Side				PP Side			
Bogie No	180922				180921			
Bogie Type	FIAT				FIAT			
Frame no.	MCF/RBL-01241				AML-75			
Bolster no.	APEX-10				APEX-08			
Axle No	18 E - 8522 RWF		18 E - 5771 RWF		18 E - 8458 RWF		18 E - 2629 RWF	
Wheel Dia	917.370	917.411	917.434	917.418	917.419	917.451	917.547	917.517
Wheel Disc No	TZ04-18 10042-8MR4	TZ04-18 14244-8MQ0	TZ03-18 09679-8MS8	TZ04-18 10145-8NG4	TZ04-18 10142-8NG4	TZ03-18 09677-8MS5	TZ04-18 10045-8MR5	TZ04-18 10140-8NG4
R.B. Nos.	05-18 09075	05-18 08674	05-18 08884	05-18 09695	05-18 08132	05-18 08314	05-18 08525	05-18 08312
CT R B Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	

9. 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.	CMFSK07-18- 8836-3803-114	CMGBD03-18- 837-22-106	CMFSK07-18- 8836-384-92	CMGBD03-18- 837-22-130	CMAFJ06-18- 7146-3	CMAFJ04-18- 7145-35	CMAFJ06-18- 7146	CMAFJ04-18- 7145-12
Compressed Ht. at Tested Load	515	470	515	471	511	464	510	468
Alignment deviation (mm)	11	10	10	10	5	10	6	10

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	9229,9228	9226,9227
2.	Primary outer Spring	CMFSK	01-18 7142-350 (241,302,255,289)	01-18 7142-350 (223,268,59,253)
3.	Primary Inner Spring	CMFSK	02-18 7143-395(109,192,172,80)	02-18 7143-350(58,274,234,378)
4.	Primary Damper	KNORR	07-18(27918,27920,27924,27929)	07-18(27987,27995,27985,27994)
5.	Secondary Damper	KNORR	05-18 (4384,4388)	05-18(4840,4838)
6.	Lateral Damper	KNORR	11-17 1627	11-17 1631
7.	Brake Cylinder	FAV	A18(048,034,017,035)	A18(069,041,009,021)
8.	Brake Caliper	FAV	A18(139,138,078,079)B	A18(128,125,073,076)B
9.	Brake Disc	KBI	24147651 0005-26/18,24147652 0012-26/18 24147641 0009-25/18,24147645 0058-25/18	24147652 0021-26/18,24147651 0023-26/18 24147265 0008-26/18,24147645 0020-26/18
10.	Ball Joint Control Arm	AR/MTC		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	SF		
14.	Ball joint traction lever	BONY		
15.	Ball joint traction centre	AR		
16.	Secondary Rubber Pad	DUREL/PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar make	SARITA		
19.	Roll Link make	SARITA/GMT		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	300618-2,050618-2,030718-2,300618-2	180618-1,180618-1,200618-2,260618-2
22.	Control Arm Lower	RVE	060618-1,300618-1,060718-1,030618-2	RVE ,300618-1,060618-1,050618-1

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 Faively transport tech.india ltd baddi(HP)	B18001B
2.	Distribution valve	M/s Faively transport tech.india ltd baddi(HP)	18025562B
3.	Hand brake equipment	M/s PALSTO POWER P.B.	
4.	Foot Step	M/s Super spark pvt.ltd. Faridabad	
5.	Floor board	M/s TWPL, mumbai	
6.	PVC	M/s Premier polyfilm, Ghaziabad	
7.	UIC Vestibule (NPPE)	M/s-KRP MUMBAI	
8.	Gangway bridge mounting (NPPE)	M/s COMPTANT ENG. JALANDHAR	
9.	AL. Chequer plate/sheet	M/s Hanspal coach products, KXH	
10.	Automatic fire detection & suppression system	M/S Sanrok, faridabad	
11.	Body Side Window	M/S BIRKON ENGG. GHAZIABAD	
12.	Lavatory/hopper Window	M/s Aikon ind.salon H.P	
13.	Roof Ceiling	M/s-GANDHI SAFE & ALLIED, Jalandhar (guard room) Rail export, jalandhar(crew room)	
14.	Generator room ceiling	M/S Rail tech pvt.ltd. KXH	
15.	RMPU	M/s INTEC, DEHRADUN	
16.	AC Trough	M/s CMT MECHANISED SYSTEM, VADODARA	
17.	Luggage sliding door	M/s Guru.Nanak .Ind.. Pvt.ltd. PB	
18.	Hatch door	M/S Rail tech pvt.ltd. KXH	
19.	Body Side Doors	M/s JBM INDUSTRIES, FARIDABAD ,JVR LDH	
20.	Vestibule Door(NPPE)	M/s JBM, Faridabad	
21.	Crew/gen. room door	M/s JBM, Faridabad	
22.	Crew/guard room door	M/s kalsi , LDH	
23.	Bio Tank (01 No LAV.)	M/s P.D.STEEL	
24.	Auxiliary Water Tank(1x30L)	M/S Shivalic fastners pvt. ltd. mohali	
25.	Under Slung Water Tank (1x450 L)	M/S AMIT ENG.. mohali	
26.	Fuel tank (2x1500 L)	M/S Shivalic fastners pvt. ltd. mohali	
27.	Flexible Faucet	M/s Hindustan fibre ltd. vadodara	
28.	Lotah Filler Tap	M/s Hindustan fibre ltd vadodara	
29.	Bib cock	M/s KALSI PUMPS, JALANDHAR	
30.	Composite modular toilet	M/s Hindustan fibre ltd vadodara	
31.	Lavatory Doors	M/s KALSI, LDH	
32.	Seat & Berth	M/s GANDHI SAFE & ALLIED, JALANDHER	
33.	Luggage Rack	N/A	
34.	Folding Table	M/S OM IND, UTTRAKHAND	

[Signature]
SSE/QC/MCF/RBL

गुणवत्ता विभाग

रेडिंकॉ, रायबरेली (लालगंज)



MCF/RBL



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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	REFERENCE & PERIOD OF TRIAL
			Frequency	

16. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, 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	AME/QC/MCF/RBL	Dy. Chief Quality Manager
गुणवत्ता विभाग	सहायक यांत्रिक अभियंता / गुणवत्ता	आधुनिक रेल डिब्बा कारखाना, रायबरेली
रेडिओ, रायबरेली (तालगंज)	Assistant Mechanical Engineer-Quality	Modern Coach Factory, Raebareli



MCF/RBL



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEP/8001

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR			
TYPE COACH	LWRRM	SHELL/COACH NO	188571/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	14.58 Cub mtr/min	OK
3.2	Return Air	42.84 Cub mtr/min	OK
3.3	Exhaust Air	NIL Cub mtr/min	OK
3.4	Conditioned Air	56.22 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 :22.0 °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		OK

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB POWER CAR
ELECTRICAL TEST CERTIFICATE FOR LHB POWER CAR

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FAN OVER	OK
10.0	LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMERS	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGERS	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	HYGROSTAT	OK
16.4	CONTROL CIRCUIT	OK
16.5	POWER CIRCUIT	OK
16.6	ALTERNATER EARTH LEAKAGE RELAY	OK
16.7	FEEDER EARTH LEAKAGE RELAY	OK
16.8	UNDER VOLTAGE RELAY	OK
16.9	OVER VOLTAGE RELAY	OK
16.10	BUS COUPLAR	OK
16.11	FEEDER CONTACTOR	OK
16.12	SMOKE TEST	OK
17.0	REFRIGERANT USED R 407C	OK

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Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches Make : INTEC Sr no of RMPU (PP side): 17M892T2 Sr no of Microprocessor: 18.02.1273-SIDWAL	RDSO/pe/spes/ac/0061/rev-1/2005	02
02.	Power and Control Panel for LHB Power car, Make: TRINITRON Sr no : 18/06/TCS/RBL/3414/LHB/0011	EDTS-103 ,REV-c	01
04.	Switch board cabinet Make : SSK Sr no : 2018-07-038	EDTS 104, REV-a	01
05.	Pump equipment with PLC controller & pump box Make: DR AUTO Sr no PA- NIL Sr no.1- 18040295 Sr no.2- 18040296 Sr no.CPA- 17070060 -KIND	EDTS 186,Rev-a, Am- 2	01
06.	Lavatory light fitting assly Make : DR AUTO	LW 76001,Alt nil	01
07.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02
08.	Razor socket for WC 110/240V Make : SSK	EDML 047 ,Rev nil	01
09.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
10.	Terminal connector Make : WAGO	EDML 037,Rev`a'	01
11.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make: SSK	EDML 047,Rev- C, Item 1.	02
12.	PA system for LHB coaches Make : AHUJA	EDTS 173,TYPE -II	01 set
13.	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 : 05/18	EDTS 129,Rev nil	01 set

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Sr no	Description	Drg/Spec no.	Quantity per Coach
14.	SET OF BATTERY FOR DA (A & B) (A) Make: CELTEK Lug date: 06/18 (B) Make: CELTEK Lug date: 06/18		02 sets
15.	Battery box for LHB coaches. MAKE- TECHNO INDUSTRIES	1 10113.0.76.700.005 w/o item 5,22 ,23 ,26 & 27.ALT C	01
16.	Battery fuse box +ve Make : INTEG	LW 71001,Alt-F	01
17.	Battery fuse box -ve Make : SSK	LW 71002,Alt-F	01
18.	60KVA TFR Make- AUTOMATIC Sr no:1. 1/18/510483/73 Make- AUTOMATIC Sr no:2. 1/18/510483/70 Make- AUTOMATIC Sr no:3. 1/18/510483/72	EDTS 076, Rev-0. 1.for panel 2.for Rad. Motor A 3.for Rad. Motor B	03
19.	Capacitor Bank Make: S.INTERNATIONAL SL.no. 384-04/2018	EDML-130 Rev-1,Corr-1	01
20.	Emergency Battery Charger Make- WAVES Sr no:1. 184630 Make- M.B COMP. Sr no:2. 2017/12/548	EDTS-163 REV-C, corg-2&3	02
21.	Wheel set earthing equipment. Make : DARSHAN ENTERPRISES	EDTS101,REV-C,AM-1	02
22.	Wheel Slide Protection System (WSP) Make- FAIVELEY Sr no : 47/16/866	MDTS 077 REV-2	01 set
23.	500KVA/750V/03Ph DIESEL ALTERNATOR set, complete with Power & Control panel.	EDTS 102, Rev`c`	02
23.a1	Sr no of Alternator "A" Make- STAMFORD Sr No- N18E219015	EDTS 102, Rev`c`	01
23.a2	Sr no of Diesel Engine "A" Make- CUMMINS Sr no- 25437271	EDTS 102, Rev`c`	01

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ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.b 1	Sr no of Alternator "B" Make- STAMFORD Sr no : N18E229273	EDTS 102, Rev`c'	01
23.b 2	Sr no of Diesel Engine "B" Make- CUMMINS Sr no : 25437278	EDTS 102,	01
24.	Control Panel for ventilator Fan motor for Diesel Engine "A" Make- INDORAIL Sr no- 2018060205	EDTS 110,REV-NIL	01
25.	Ventilator Fan Motor for Diesel Engine "A" 1.Make: ABB Sl no: 1500116 2.Make: ABB Sl no: 1580906	EDTS 110,Rev nil	01
26.	Radiator Fan Motor for Diesel Engine -"A" Make: ABB SL no: 3G1J1870001576682	EDTS 104, Rev`a'	01
27.	Control Panel for Radiator Fan motor for Diesel Engine "A" Make- ABROL Sr no- 2018-07-209	EDTS-104,REV-A	01
28.	Ventilator Fan Motor for Diesel Engine "B" 1.Make: ABB Sl no: 1580910 2.Sl no 0008814	EDTS 110,Rev nil	01
29.	Control Panel for ventilator Fan motor for Diesel Engine "B" Make- INDORAIL Sr no- 2018060185	EDTS 110,REV-NIL	01

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ROLLING STOCK CERTIFICATE OF LHB/POWER CAR

Sr no	Description	Drg/Spec no.	Quantity per Coach
30.	Radiator Fan Motor for Diesel Engine -"B" Make: ABB Sr no- 3G1J18230001590900	EDTS 104, Rev`a'	01
31.	Control Panel for Radiator Fan motor for Diesel Engine "B" Make- ABROL Sr no- 2018-07-188	EDTS-104,REV-A	01
32..	Starter Battery Charging Control Panel -A & B Make : ISG Sr no: SBC-MCF-17-08-0047	EDTS 116,Rev nil	01
33.	Féeder Junction box. Make: AECO	EDML 020, Rev`a'.	01 set
34.	Single Inlet Radial Blower, 415V/03Ph/185W/ 1045Cub mtr/hr discharge from S1 & S2 & Lavatory. Make- INTEG	EDTS-331, TYPE-2	01
35.	Lights Make : RT VISION	RDSO/PE/SPEC/TL/0091-2016, REV-01, TYPE-N & LW 76099	20
36.	Smoke Detector Unit. Make: AG RAIL Sr no: 500398	EDTS 087,Rev`a',Type II	01
37.	Provision of Tail light switch2P/16A/ SG16, mounted in ABC plastic enclosure with round padlock, 90DEG, ON/OFF. Make: SSK	As per Cat no. SG 16	02
38.	ZS coupling 400A , 750V ,03Ph,50Hz. Make 1.(NPP): MAA LAXMI INDUSTRIES 2.(PP): MAA LAXMI INDUSTRIES	EDTS 105, Rev`c'.	01 set
39.	Connector for External supply socket. Make: JAI BALAJI	EDML 013, Rev nil.	02

वरिष्ठ अभियन्ता SSE/EL/QC मुख्यालय / रायबरेली S.S.E./Elect-QC/M.C.F./LJ/RBL	वरिष्ठ विद्युत अभियन्ता SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL रेल कोच फैक्ट्री, रायबरेली, लखनऊ Sr. Electrical Engineer (M.C.F. Raebareli) know
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