



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/2020-21/1282

RLY	WR	COACH NO	215654/C	DATE OF DISPATCH	19-Mar-21
Type	LWS	Shell No.	20F196	DISPATCH TO	Sr.DME/C&W/IND/RTM
				FUR.NO.	DDG-681

1. Railway Board's Order No. : 2020/M(C)/142/2,DATED-11.06.2020

2. Tare weight of coach : 40.66 Tonnes

3. Carrying Capacity : (a) Seating: 100 (c) Luggage: NIL

4. Special feature:

S NO	DESCRIPTION	MAKE/SUPPLIER
A	Cushion transverse side luggage rack which can serve as seat during rush	M/S-VIBGYOR SERVICE NDLS
B	Honey comb partition frame.	M/S-VIBGYOR SERVICE NDLS
C	DGFRP/GFRE paneling.	M/S-VIBGYOR SERVICE NDLS
D	Lavatory with DGFRP/GFRE paneling.	M/S-VIBGYOR SERVICE NDLS
E	Additional Hand hold.	M/S-VIBGYOR SERVICE NDLS
F	Counter top wash basin.	M/S-VIBGYOR SERVICE NDLS
G	Gel coating & Anti Graffiti measures.	M/S-GSI
H	Air spring in secondary suspension (capacity-140KN).	M/S-RESISTO FLEX
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 1099/1103

6. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1	Under frame	Front PP END M/S-NE	-----
		Part NPP END M/S-SANTECH	-----
	Complete	MCF/RBL-V4U TECHIE	20F196
2	Lav. side wall	M/S-DTL PUNE	LAV.1 ----- LAV.2 -----
		M/S-DTL PUNE	LAV.3 ----- LAV.4 -----
3	Side wall	LH SIDE MCF/RBL-V4U LKO	62
		RH SIDE MCF/RBL-V4U LKO	62
4	End wall	PP END M/S-OMAX REWARI	-----
		NPP END M/S-OMAX REWARI	-----
5	Roof	M/S-UNIVERSAL	41
6	Centre Buffer Coupler	M/S-FRONTIER	PP END 101P1 NPP END 206P2

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.	07 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	GSI	M/S-GSI WOW (S&A)	86/96	14-Mar-21
2	Insulation			Satisfactory		

वरिष्ठ अभियंता
SSE/QC/MCF/RBL

गुणवत्ता विभाग
2021
२०६० का. रायबरेली (लालगंज)





MODERN COACH FACTORY, RAEBARELLI

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 - 1282**

RLY	W	R	-	-	Coach No.	2	1	5	6	5	4	/	C	-	DATE OF DISPATCH	1	9	0	3	2	0	2	1
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DISPATCH	Sr.DME/C&W/IND/RTM	Type	L	W	S	-	-	-	Shell No.	2	0	F	1	9	6	FUR.NO	DDG- 681
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9. DETAIL OF BOGIES:

ITEMS	NPP Side				PP Side			
Bogie No	202854				202853			
Bogie Type	LWS				LWS			
Frame no.	AML-317				AML-324			
Bolster no.	Amit -624				AMIT-574			
Axle No	21 C - 4324 RWF		20 B - 3835 RWF		21 C - 3982 RWF		21 C - 3529 RWF	
Wheel Dia	917.445	917.54	917.442	917.55	917.351	917.42	917.428	917.496
Wheel Disc No	TZ 09-20 34405-0TE0	TZ 09-20 31523-0SD3	TZ 09-20 30684-0TC4	TZ 09-20 34402-0TE0	TZ 06-20 18099-0PLO	TZ 06-20 18103-0PLO	TZ 09-20 28510-0TC1	TZ 09-20 28511-0SES
R.B. Nos.	03-20 300199	06-20 412387	06-20 412012	03-20 300081	06-20 412980	06-20 412059	06-20 413219	06-20 412204
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 06-20 15325	RESISTROFLEX. 06-20 15282	RESISTROFLEX 07-20 15336	RESISTROFLEX. 07-20 15276

11. TRACEABILITY OF BOGIE ITEMS :-

S. NO	ITEM	MAKE/SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	IAI	301385,301446	301528,301677
2.	Primary outer Spring	CMFSK	05-20 F07-200-(674,718,682,642)	05-20 F07-200-(699,485,1179,1154)
3.	Primary Inner Spring	CMFSK	08-20 F05-192-(592,576,1775,183)	05-20 F05-192-(1853,1361,1472,324)
4.	Primary Damper	IAI	06-20 (321397,321745,321756,321552)	02-20 (309515,321178,321328,309136)
5.	Secondary Damper	IAI	01-20 (326582,326807)	06-20 (327128,327312)
6.	Lateral Damper	KONI	04-19 00273	04-19 01821
7.	Brake Cylinder	FAV	B21(007,022,098,004)	K20-263,A21-191,B21-043,K20-261
8.	Brake Caliper	FAV	B21(441,440,439,442)B	B21(474,472,471,473)B
9.	Brake Disc	KBI	24241021 0006-49/20,24241021 0010-49/20 24241013 0046-47/20,24241012 0067-47/20	24243855 0072-50/20,24243856 0015-50/20 24243858 0053-51/20,24243858 0052-51/20
10.	Ball Joint Control Arm	GMT		
11.	Lateral Bump Stop	PRAG		
12.	Traction Centre make	RNG		
13.	Traction lever make	TAJ		
14.	Ball joint traction lever	ARYAN/BASANT		
15.	Ball joint traction centre	BONY/PPI		
16.	Leveling Valve	FAV	F20-126,F20-111	C20-837,C20-635
17.	Check Valve	FAV	F20-268	E20-057
18.	Anti roll bar Make	RF		
19.	Roll Link make	EMSON+GMT RF/GMT		
20.	Fork make	RNG		
21.	Control Arm Upper	SFL	30,71,11,128	183,33,29,42
22.	Control Arm Lower	SFL	,216,102,81,219	118,44,5,39
23.	Phonic Wheel	KBI	K01-20	K01-21

Signature of SSE/Bogie/QC



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Type	LWS	Shell No.	20F196	DISPATCH TO	Sr.DME/C&W/IND/RTM
				FUR.NO.	DDG-681

12. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO(NPP/PP)
1	Air Brake Module	M/S-FAIVELEY	B21108B
2	Distribution valve	M/S-FAIVELEY	B215616B
3	Pull box	M/S- KBI	
4	FIBA	M/S- KBI	11457/29,11461
5	Foot Step	M/S-FABRICON KOLKATA	
6	Decoupling arrangement	M/S-PULSER KOLKATA	
7	Floor board	M/S-SHREE RAM PNL	
8	PVC	M/S-VIBGYOR SERVICE NDLS	
9	Lavatory inlay	M/S-VIBGYOR SERVICE NDLS	
10	UIC Vestibule (PPE)	M/S-ELASTOMER MUMBAI	
11	UIC Vestibule (NPPE)	M/S-ELASTOMER MUMBAI	
12	Gangway bridge mounting (PPE)	M/s-MMW KXH	
13	Gangway bridge mounting (NPPE)	M/s-MMW KXH	
14	Body Side Window	M/S-VIBGYOR SERVICE NDLS	
15	Emergency Window	M/S-VIBGYOR SERVICE NDLS	
16	Lavatory/hopper Window	M/S-VIBGYOR SERVICE NDLS	
17	Roof Ceiling ACP	M/S-VIBGYOR SERVICE NDLS	
18	Door way /gang way ceiling ACP	M/S-VIBGYOR SERVICE NDLS	
19	Body Side Doors	M/S-VIBGYOR SERVICE NDLS	
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-RAIL FAB KXH	
25	Bib cock/controlled discharge tap	M/S-VIBGYOR SERVICE NDLS	
26	Lavatory Doors	M/S-VIBGYOR SERVICE NDLS	
27	Fire Extinguisher	M/S-A-ONE	366,381
28	Water purified (02 nos)	M/S-VIBGYOR SERVICE NDLS	
29	Seat & Berth	M/S-VIBGYOR SERVICE NDLS	
30	Luggage Rack	M/S-VIBGYOR SERVICE NDLS	
31	Light Luggage Rack	NIL	
32	Ventury grill	M/S-VIBGYOR SERVICE NDLS	
33	RFID	NIL	


वरिष्ठ अधिकारी
SSE/QC/MCF/RBL
गुणवत्ता विभाग
#0डि0का0, रायबरेली (लालगंज)





Modern Coach Factory Raebareilly
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	WR	COACH NO	215654/C	DATE OF DISPATCH	19-Mar-21
Type	LWS	Shell No.	20F196	DISPATCH TO	Sr.DME/C&W/IND/RTM
				FUR.NO.	DDG-681

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
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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.

 Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	 Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly	 Dy. Chief Quality Manager आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareilly
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वरी 02/04/21
गुणवत्ता विभाग
रेडिओ, रायबरेली (लालगंज)

Assistant Mechanical Engineer / Quality
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly

उप मुख्य गुणवत्ता प्रबंधक
16/4/2021
Dy. Chief Quality Manager
आधुनिक रेल डिब्बा कारखाना, रायबरेली
Modern Coach Factory, Raebareilly





GSTIN : 03ACBPK3400D1ZM
Excise Regn. No. ACBPK3400DXM001

G. S. INDUSTRIES

APPROVED BY

**N.S.I.C.
R.D.S.O.**

**ISO 9001-2015
ISO 14001-2015**

D-146, FOCAL POINT EXTENSION, JALANDHAR-144004

PHONE : (O) 0181-5081474
(M) 99882-65025, 99884-55459
Website : www.gspaints.com
e-mail : info@gspaints.com

WARRANTY CERTIFICATE

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

Date - 15/3/2021

Sub:- PERFORMANCE WARRANTY CERTIFICATE

PO NO. 31061800101632 DATED 01.10.2019

NAME OF WORK: - SUPPLY AND APPLY OF PU BASED WET ON WET APPLICABLE EXTERIOR PAINTING SYSTEM FOR LHB COACHES. AS PER SCOPE OF WORK AND MMDTS-18034 REV-02 WITH AMENDMENT NO. MP/RBL/B8 DT 28/05/2019 (EPOXY ELASTIFIED PAINT INSIDE THE COACH NOT TO BE CARRIED OUT, PAINTING CYCLE TIME WILL BE 30 HRS AS MENTION IN MMDTS-18034 REV-02)

DEAR SIR,

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

SR.	SHELL NO.	FURNISHING NO.	COACH NO.	Railway NO.	DATE OF COMPLETION
1. 298	LWSDG 20F196	DDG-681	2156591C	WR	06/03/2021 14/03/2021

The warranty is applicable from date of dispatch against the below mention defects as per MCF specification no. MMDTS 18034 REV-2

- Gloss level value of applied paint-initial 95 unit(on the date of painting) and minimum 90%,85%,75% & 70% of initial gloss after 6 months, one years, four years and six years respectively from the date of application.
- Decolonization of paint film.
- Cracking of paint film.
- Peeling of paint film.
- Blistering of the paint film.
- The coach is warranted 6years for gloss retention, premature failure in colour retention

For G. S. INDUSTRIES

Auth. Signatory



Modern Coach Factory Raebareli
आधुनिकरेलडिब्बाकारखाना, रायबरेली

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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	215654/C
RAILWAY	WR	ELECT. FIT DATE	18-03-2021
		MCF FUR. NO.	DDG - 681
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

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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.: HIND On Board: H355.20F.0820 HT Panel: H355.20E.0753	EDTS 333, Rev'01'.Am-1	01 SET
02.	Provision of 9 KVA 750/415/190V, 03Ø AC. Make : VIMAL Sr no.: VTC 3089 LHB 4333	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.: 09190379	As per spec no. RDSO/PE/SPEC/AC/0183-2015(REV.-1)	01
06.	Provision of Feeder Junction Box Make : LIGHT ENGG.	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 : RSI	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
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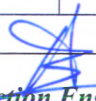


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Sr. no.	Description	Drg./Spec no.	Quantity per Coach
12.	Fitment of Railway carriage Fan 400mm Sweep, 110V AC with crash worthy features. Make: KAPSONS	As per Drg. No. ICF/SK-7-6-158,alt-g. RDSO/PE/SPEC/TL/0021-2005 (Rev-3) with RCF annex-1,am-1.	30
13.	Fitment of LED Light fittings for Cabin, Doorway and Gangway area. 9 watt. Make: DR AUTO	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: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,Rev-1 with RCF Annex-1Type-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-1Type-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


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Quality control / Electrical
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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 : FAIVELEY Sr no : 13161	As per MDTS 077,Rev.-2 M/s"FAIVELEY" or "Knorr Bremse", or "ESCORTS" or" JWL-DAKO-CZ"	01 SET

 वरिष्ठ अनुसंधान अभियन्ता SSE/EL/QC गुणवत्ता नियंत्रण आर०रे०डि०का० / लालगंज / रायबरेली S.S.E./Elect-QC/M.C.F./LL/RBL	 AWM(ELECT.)/MCF/RBL SEE(P)/MCF/RBL
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स० कार्य प्रबन्धक / विद्युत
आर०रे०डि०का० / रायबरेली
A.W.M/Electrical/MCF/RBL