

No:- ECR/HRD/GAZ/254/AME (Gr.'B)/30%/2017

Dated:- 26/03/2018

Secy. to GM/ECR: For kind information of GM
 PS-I to AGM: For kind information of AGM
 Secy. To PCPO: For kind information of PCPO
 SDGM/ECR/HJP
 GM (P)/CORE/Allahabad
 General Manager/RITES/NDLS
 PCME/ECR/HJP
 CAO (Con)/N & S/MHX/ECR/PNBE, CAO/WP/PNBE
 CAO (GELF)/ECR/DMH
 CPD/RE/DNR
 Chairman/RRB/Patna & MFP
 DRM/ECR/DNR, MGS, DHN, SEE & SPJ
 CWM/PD/ECR/MGS, WS/SPJ & CRW/HRT
 Sr.DPOs/ECR/DNR, MGS, DHN, SEE & SPJ
 Sr.DMEs/ECR/ DNR, MGS, DHN, SEE & SPJ
 Dy.CPO/HRD/ECR/HJP
 Principal/ZRTI/E.C.Rly/Bhuli & MFP
 APO/Rectt./ECR/HJP
 SPO/MPP/ECR/HJP : For uploading on Net.
 All Extra Divisional Units

Sub:- Selection against Limited Departmental Competitive Examination (LDCE) for the post of AME (Group-'B') in Pay Band Rs. 9300-34800/- (PB-2) Grade Pay- Rs. 4800 (Level 8 as per 7th CPC) against 30% quota.

It has been decided with the approval of the Competent Authority to hold a LDCE for forming a panel against 02 vacancies (UR-01, SC-Nil, ST-01) of Group-'B' post of AME against 30% quota on E.C. Railway.

As decided by Railway Board vide LNo.E(GP)2002/2/88 dt. 31.01.2006, that there will be combined selection for the different streams of Mechanical Department i.e. for the post of AME/C&W, AME/Power and AWM.

The details are given below:-

TENTATIVE PROGRAMME OF WRITTEN EXAMINATION & VIVA-VOCE

- Date & Time of written examination :- 23.06.2018 & 24.06.2018
- Venue :- East Central Railway Boys High School, Khagaul, Danapur.
- Duration :- 03 hours of each paper.(11:00 hrs to 14:00 hrs.)
- Viva-voce :- Separate advice will be issued to qualified Candidate(s)

(2) Eligibility:- (As on 22.03.17)

- a) All permanent Group 'C' technical staff of Mechanical Department working/holding lien in Mechanical Department of East Central Railway in Pay Band Rs.9300-34800 (PB-2) with Grade Pay Rs.4200/- (Level- 6 in 7th CPC) and above including all running staff of Mechanical Department/E.C. Railway working in Pay Band Rs 5200-20200/- (PB-1) Grade Pay Rs.2400/- (equivalent to the stationary post in Pay Band Rs.9300-34800/- (PB-2) Grade Pay Rs.4200/- & above as per RBE No. 92/2015) including those who are working in other Railways/units and on deputation having lien and seniority on East Central Railway and completed minimum 5 years of non-fortuitous regular service in the grade(s) as on 22.03.17 are eligible to volunteer for the LDCE.

However, those Gr.'C' employees who have been provided Grade Pay 4200/- or above in PB-2 (9300-34800) under ACP /MACP are not eligible to volunteer for the above written examination.

The cut-off date of eligibility for candidates for 30% LDCE is 22.03.17 which is same as in selection against AME (70%).

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- b) As per Railway Board's letter No. E(GP)2005/2/74 dt 13.03.08 (RBE 40/08), in case of persons transferred at his own request to a new unit in the same category of posts, and assigned bottom seniority therein, the service rendered by them in the previous unit may be reckoned for determining their eligibility wherever a minimum length of service is prescribed as a condition for promotion in the new unit, subject to the condition that the length of service which is so allowed to be counted does not exceed the length of service of their immediate senior in the new unit.
- c) Candidate who has come on own request transfer/mutual transfer and joined to this Railway after cut off i.e. 22.03.2017 date will not eligible to appear in the selection.
- (3) Eligible staff who desire to volunteer for the above LDCE may submit their application through proper channel to their respective Personnel Branch where they hold lien & seniority.
- (4) Eligible staff working in the Construction/Project organization on deputation or in training or in any ex-cadre post, who desire to volunteer for the above LDCE may also submit their application through their respective Personnel Branch where they hold lien & seniority. The Personnel/controlling officers of the concerned divisions/units are advise to transmit the notification to the staff, who are on deputation through their divisions/Units.
- (5) When an employee is holding an ex-cadre post, details of his post in regular cadre with the grade and date of entry as a regular measure should be furnished. This may also be brought to the notice of all concerned. It may be ensured that wide publicity may be given to this letter amongst all the eligible concerned staff. It is the personal responsibility of the Personnel Officers/Controlling officers of the units to ensure that the notification reaches to all the eligible employees well in time.
- (6) All the volunteers who fulfill the above mentioned conditions of eligibility will get the chance to compete in the said LDCE, without any restrictions to the number of candidates to be allowed for appearing in the examination.
- (7) The above LDCE will be based on the candidate's performance in written examination, viva-voce & record of service. Only the candidates, who qualify in the written examination, and found medically fit for Safety category post of AME(Gr.B) as prescribed in Indian Railway Medical Manual will be called for Viva-voce test. The placement of the candidates in the panel will be based on their performance in written examination, Viva-voce test and Record of service as per extant instructions of Railway Board.
- (8) The written examination will consist of **Two papers** on the subject. Total marks & qualifying marks are as indicated below:-

Subject	Maximum Marks	Qualifying marks	Remarks
Paper-I Professional subject & General (i.e General Knowledge, General Mathematics, Strength of Material and Physics & Basic Electricity)	150*	90	* Out of 150 marks, the professional subject will carry 100 marks in each paper.
Paper-II Professional subject, Establishment & Financial Rules	150*	90	

- (9) Total marks and qualifying marks under the heading "Viva-Voce and Record of service" are as under:-

Head	Maximum Marks	Qualifying Marks
Record of Service -	25	30, in which 15 marks for Record of service will be essential.
Viva-voce test -	25 } Total 50 marks	

- (10) The question paper will be bi-lingual, i.e both in Hindi and English. It will be candidate's choice to write in any one of these languages. The candidate should clearly indicate his/her choice of language in the space of the application format.
- (11) A copy of syllabus of AME/Gr. 'B' in Mechanical Deptt. circulated by Railway Board vide RBE No. 40/2007 is enclosed as Annexure -'B' for wide circulation amongst the eligible candidates.

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- (12) The controlling officers should give wide publicity of this notification amongst the eligible staff under their control and ensure submission of applications given by the candidates in prescribed proforma (specimen format is enclosed as Annexure- 'A') within the stipulated time. The last date of submission of the application by candidates duly countersigned by their controlling officer is **26.04.2018**.

(13) **ACTION TO BE TAKEN ON RECEIPT OF APPLICATION BY CONCERNED PERSONNEL OFFICERS/CADRE CONTROLLING OFFICERS:-**

- a) The personnel officer/Cadre controlling officer will check the correctness of all the particulars of the applications with the Service Records and other relevant records and certify the correctness of each item of the application. Without such certification, application received will summarily be rejected and the responsibility will be fixed for incorrect or incomplete certification against the officer who will certify/verify. The Personnel officer/Cadre Controlling officer should invariably write "**Checked and verified**" in each and every application after checking and verifying the details duly attesting their signature and date of certification (the date of certification should invariably put in the application).

In case, the Personnel/Cadre Controlling officers do not put the date after certification or merely forward the application without checking and verifying the details, the matter would be brought to the notice of PCPO and concerned PHOD for taking action against him.

- b) It may please be noted that Controlling Officers/Heads of the Units have no discretion to entertain any application beyond the last date. The applications of the employees who are eligible, should only be forwarded after verifying the other relevant particulars and ineligible application should not be forwarded.
- c) The Personnel officer/Cadre Controlling officer should forward the scrutinized and checked applications in one bunch together under one covering letter furnishing the details in the following proforma addressed to Dy.CPO/Gaz./HQ by 04.05.2018 indicating therein the total number of applications forwarded. (The details should be sent in soft copy (MS Excel format also). The applications rejected may be intimated to the individuals giving reasons thereof.

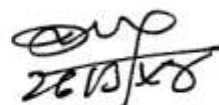
1	2	3	4	5	6	7	8	9	10
Sl. No	Name of the employee	Desig.	DOB	DOA	Working Under	Community (UR/SC/ST)	Date of Regular promotion to Grade Pay		Total service in (GP) Rs.4200/ Rs.2400/- (in case of running staff) & above in Mech. Deptt as on 22.03.17
							GP 4200	GP 4600	Year Month Days

- (14) It may please be noted that application other than in prescribed proforma, having incomplete information or without signature of the controlling officer and countersignature of Personnel officer will not be entertained.
- (15) In case the service particulars furnished by the volunteers and certified to be in order by the concerned authority are found incorrect/false subsequently, the candidature of the volunteer will be liable to be cancelled at any stage and suitable departmental action will be initiated against him/her.

(16) **TRAINING OF SC/ST CANDIDATES:-**

In terms of Railway Board's letter no. E(MPP)96/3/23 dt. 21.07.2000, SC/ST candidates are required to undergo pre-selection training for 03/04 weeks (21 working days). PCME/ECR/HJP will organize pre-selection training to all the candidates belonging to SC/ST. If any SC/ST candidate refuses to undergo pre-selection training, a written undertaking should be obtained from him/her and sent directly to PCME/ECR/HJP. The controlling officer should ensure that the SC/ST candidates under their control are spared without fail well in time for pre-selection training. The SC/ST candidates are also advised to insist their controlling officer in their own interest, to spare them to undergo the said training. No appeal to this effect will be entertained by GM (P)/ECR/HJP after completion of the pre-selection training.

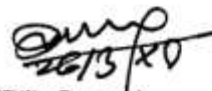
- (17) The eligible staff should also be advised that no supplementary written examination would be held for the absentees under any circumstances. As per rule, there is no provision of absentee exam in LDCE.


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- (18) The controlling/authorized officer should ensure the issue of individual sparing letter/identity slip duly attesting specimen signature of the candidate on the sparing letter/identity slip. The candidates without proper sparing letter/identity slip will not be allowed to appear in the examination.
- (19) Concerned Personnel Branch officer & controlling officers should ensure submission of service records and ACRs/APARs of last 05 years and DAR/Vig. Clearance in respect of staff declared qualified for the viva-voce in due course/immediately after publication of the result of written examination through special messenger to SPO/Gaz/ECR/HJP.
- (20) Instructions and Master Circular No. 68 governing rules for promotion from Gr. 'C' to Gr. 'B' have been issued by Railway Board. The said master circular is available on website www.indianrailways.gov.in.....>ministry of railway...>railway board> Directorate... >Establishment...>E(GP) Master Circular. The department/division/unit should ensure the compliance of instructions of item 15 of Master Circular 68.
- (21) Application received after the target date should not be entertained and the same should be disposed off at the Division /Extra Divisional level by rejecting them on account of late receipt under advice to this office.

Please acknowledge receipt.
Hindi Version will follow.

- DA :- i) Proforma of application (Annexure 'A')
ii) Syllabus (Annexure 'B')


(Dilip Paswah)
Sr. Personnel Officer /Gaz
For General Manager (P)

**PROFORMA OF APPLICATION TO BE FILLED UP BY THE VOLUNTEER FOR SELECTION OF
AME/Gr. ('B') AGAINST 30% QUOTA ATTACHED WITH THIS OFFICE NOTIFICATION NO.
ECR/HRD/GAZ/254/AME(Gr.B)/30%/2017 Dated.- 26/03/2018**

1. Full Name (in Block Letters) :-
2. Designation and station :-
3. Working under :-
4. Date of Birth :-
5. Date of appointment (Post with Grade pay and Department):-
6. Divn/Unit where lien/seniority held :-
7. Dt. of Joining in Present lien/seniority unit :-
(Please mention :- Direct Rectt./Own request transfer/Mutual transfer/Administrative ground)-
8. PF/NPS No. :-
9. Educational Qualification :-
10. Whether the candidate belongs to SC/ST :-
- Community (if yes, a copy of caste Certificate duly attested by a Gazetted Officer should be enclosed.)
11. Date of appointment/promotion to the following grade on regular basis (7th CPC) in Mech. Deptt. :-

Pay-Band & Grade-Pay	Date	Month	Year
(a) Level 4 in 7 th CPC (PB-II, GP- 2400 in 6 th CPC)			
(b) Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)			
(c) Level 7 in 7 th CPC (PB-II, GP- 4600 in 6 th CPC)			

12. Length of non-fortuitous service (Regular Promotion) in the following grade in present lien/seniority unit (Mech. Deptt.) as on 22.03.17 .

Pay-Band & Grade-Pay	As on	Year	Month	Days
(a) Level 4 in 7 th CPC (PB-II, GP- 2400 in 6 th CPC)	22.03.17			
(b) Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)	22.03.17			
(c) Level 7 in 7 th CPC (PB-II, GP- 4600 in 6 th CPC)	22.03.17			

13. Present pay scale & date of promotion to present scale/Grade Pay:-

14. Choice of language to answer the questions (English/Hindi). :-
(The candidate should indicate his/her choice)

15. **DECLARATION OF THE CANDIDATE:-**

- (i) I..... do hereby declare that, I have completed 05 years non-fortuitous Service in Pay Band Rs. 9300-34800 (PB-2) with Grade Pay Rs.2400/Rs.4200 and above in Mech. Department as on 22.03.2017 and also fulfilled other eligibility criteria of the said selection.
- (ii) I..... do hereby also declare that the above particulars furnished by me are true to the best of my knowledge and belief. I further undertake that any above entry is found incorrect or not in order, my candidature shall liable to be cancelled at any stage during pendency of the above selection.

SIGNATURE OF THE EMPLOYEE
Designation with Grade Pay
Mobile no. of employee
Date

- (A) Forwarding the application (filled-up) submitted by the candidates to the cadre controlling officer (Personnel Branch) by his /her controlling officer:-

The service particulars/Bio-data on the prescribed proforma filled-up by the Shri/Smt. _____
Designation _____ received within the target date is hereby forwarded to his/her respective cadre controlling officer (Personnel Branch) for verification with the service record and also for onward transmission to the GM(P)/ECR/HJP.

SIGNATURE OF CONTROLLING OFFICER
(With office seal & date)

- (B) Certificate to be furnished by the cadre controlling officer (Personnel Branch):-

If the volunteer come under the circumstances mentioned in item no. 2(b) of para 2 of the notification, the service rendered by immediate senior employee as on 22.03.17 should be indicated invariably in the under mentioned format.

No.	Name (S/Shri) of immediate senior	Desig.	Pay Band (II) & GP	Year	Month	Day
			Level 4 in 7 th CPC (PB-II, GP- 2400 in 6 th CPC)			
			Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)			
			Level 7 in 7 th CPC (PB-II, GP- 4600 in 6 th CPC)			

It is certified that the service particulars/Bio-Data furnished by Shri/Smt. Designation..... on the above proforma have been verified with his/her service record and found correct. The above mentioned candidate is eligible to appear in the said selection; accordingly the same is hereby forwarded to GM (P) /Hajipur for further necessary action.

SIGNATURE OF THE PERSONNEL OFFICER
(With office seal & Certification date)

Note : The application with any column unfilled will be summarily rejected.

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26/3/2017

**PROPOSED SYLLABUS FOR 30 % LDCE FOR PROMOTION TO GROUP
"B" FOR AME/AWM IN MECHANICAL DEPARTMENT**

PAPER-I

MAXIMUM MARKS 150

PASS MARKS 90

Part A – GENERAL PORTION-50 MARKS

GENERAL KNOWLEDGE

This section would contain questions of general interest and importance which is acquired by general observation and reading without specific text book study. Subjects of national importance as well as achievements of railways will also be covered. The standard of General Knowledge shall not be more rigorous than Matriculation.

GENERAL MATHEMATICS

- Arithmetic & Statistical operations Graphs, Fractions, Percentage, Sampling & Averages,
- Geometry-Area & volume upto Higher Secondary/ Class 12 Standard
- Algebra, simultaneous equations etc upto Higher Secondary/ Class 12 Standard
- Mechanics Velocity & Acceleration, work done & horse power etc upto Higher Secondary/ Class 12 Standard

STRENGTH OF MATERIAL

Various Engineering materials and their properties, Bearings, Stress & Strain, Fatigue, hardness, Corrosion & Surface finish.

PHYSICS & BASIC ELECTRICITY

- Temperature & its measurement
- Mechanics : Newton's Laws of Motion, Velocity & Acceleration, work, energy, power, Archimedes Principle etc.
- Heat & Work, Expansion of Solids Liquids & Gases
- IC Engines, Gas Turbines, Heat Recovery & Thermal Efficiency, Supercharging & Intercooling
- Ohm's Law, Coulombs Law, Faraday's Laws, Voltage, Current & Resistance, wet & dry batteries, power factor,
- Simple Motors & Dynamos-Principle & working, transformer, relay, fuse, circuit breakers
- Power Supply, AC & DC, Rectification

PART-B PROFESSIONAL PORTION-100 MARKS

GENERAL

- Out of commission (under repair) percentage for different types of rolling stock & motive power and how to minimize the same
- Different Types of Locomotive, Coaches & wagon Stock in use on the Railways.
- Prevention of hot boxes on motive power/rolling stock & maintenance of roller bearings
- Disaster Management- Accident Classification, duties of first official to reach at accident site, causes of accidents and their prevention, existing disaster management system & its shortcomings, recommendations of high level committee, accident Enquiry
- Corporate Safety Plan, RSRC Recommendations
- Benchmarking

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• Quality Improvement in Work area • Failure analysis • Performance Indices • Items to be inspected at workplace • Health & Safety Standards in Shops sheds & depots.
STORES
• Classification of Stores • Procedure for drawal of Stores • Indenting Procedures • Procurement methods-Local purchase, Spot purchase, Bulletin tender, Advertised tender, Limited tender, Tender Committee, Direct Purchasing • Schedule of Powers • Incoming inspection requirements • Scrap
INFORMATION TECHNOLOGY
• Familiarity with Personal Computer Specs- Processor, RAM, Hard Disk, Floppy, CD, Multimedia etc. • Operating System- Windows ○ Starting & closing programs ○ Creating/Saving/Copying/Moving files in PC and moving files from one PC to another PC ○ Utilities/Accessories: Disk Cleanup, Defrag, Antivirus, CD Burning • Basic MS Word, Excel and PowerPoint • Basic Local Area Networks: Servers, Hubs, Switches, Structured Cabling, Nodes, Network applications • Using Internet: Email, Browsing, Searching
OTHER ISSUES
Environment, Quality Management Systems ISO 9000 & ISO 14000

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PROPOSED SYLLABUS FOR PAPER - II

MAXIMUM MARKS 150

PASS MARKS 90

Sufficient number of questions shall be included in each of the disciplines to enable a candidate to answer the questions upto full 150 marks.

Part -A consists of Establishment & Financial rules worth 50 marks.

Part -B Contains Professional portion of 100marks in Four sections representing various streams of Mechanical Branch - Division & Workshop Management ,Diesel Locomotives, Carriage & Wagon and Workshops. Candidates can attempt questions from their own discipline or from more than one discipline if he so desires to complete upto 100 marks .

PART-A (Establishment & Financial Rules)-50 MARKS

ESTABLISHMENT RULES

- General Conditions of service of Railway servants including rules regarding leave joining time passes
- Railway Service D&A Rules - 1968
- Railway Service Conduct Rules- 1966
- Retirement Benefits
- Payment of Wages ,Allowances and Overtime
- Labour laws including Payment of Wages Act, Workmen's Compensation Act, Hours of Employment Regulations, Factories Act, Industrial Disputes Act, Contract Labour Act,
- Manpower Planning & training
- Welfare measures in Railways
- PNM,JCM & PREM

FINANCIAL RULES

- Parliamentary Control over Railway Finance- Public accountability, Cannons of Financial Propriety
- Railway Budget- Budgetary terms, types of Budgets, Budget Cycle, Demand for grants, Expenditure Classification
- Works Programme- Financial Justification of Works- Preparation of Estimates, Capital budget, Control Over Capital Expenditure
- Financial and Cost Control in railway workshops , Sheds & Depot
- Delegation of powers
- M&P programme, RSP

PART- B-Professional Portion -100 Marks

DIVISIONAL WORKING & OPERATIONS MANAGEMENT

- Working Time Table
- Working in Control Office
- Power Plan & Engine Utilization
- HOER & Crew Planning
- Running rooms & crew booking point management
- Fuelling Installations Management
- Running staff training
- Load Trials
- Drivers Grading System
- Accident Classification ,definitions ,ART Ordering ,Role of Supervisors & officers at accident site Management.
- 140 ton Crane Construction & safety in operations

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DIESEL LOCOMOTIVES

- Preventive maintenance schedules
- Latest design improvements in diesel locomotives to reduce failures on line.
- Design improvements in bogies to make them fit for high speed operation
- Brake system of diesel locos including working of expressors and vigilance control devices and their maintenance
- Cooling water system of diesel engines
- Fuel oil system of diesel engines
- Control of lubricating oil consumption
- Safety devices used on diesel engines and locomotives
- Testing Equipment required in sheds for governors and fuel injection pumps. Non destructive testing such as Zygo & magnaflux
- Trouble shooting on locomotives running on the railways
- Fuel Economy on diesel locomotives
- Maintenance requirements of different assemblies like- Traction motor/ Traction Generator ,express or, Turbo supercharger, power assembly, cylinder head
- Thermal loading of engine components
- Under gear maintenance
- Suspension bearings, wheels
- Excitation system, transition, dynamic braking, carbon brushes ,relays & contactors
- Load Box Testing
- Improvements made in ALCO locomotives
- DEMUs-types ,systems & trouble shooting
- Biodiesel, CNG
- Introduction to GM Locomotives and its systems

CARRIAGE & WAGON

- Coaching stock- preventive maintenance schedules in Coaching Depots including IOH.POH Schedules in shops
- Wagon Stock-preventive maintenance including ROH in depots and POH Schedule in shops .
- IRCA Rules for reject able defects
- ICF Bogies and their maintenance in sick line /shops
- Casnub Bogie & its modifications for high speed
- Corrosion repairs to coaching and goods stock
- Couplers & Draw gear, Train Parting & measures to avoid the same
- Water availability in coaches
- Fire prevention on Trains
- Air Brake System-Twin Pipe & single pipe. Under frame & bogie mounted brake system, Test rig , Checking timings, trouble shooting, DV defects, slack adjustment methods. Brake Binding
- Passenger amenity items
- Coach Housekeeping
- Maintenance Pattern of freight trains including CC Rakes & Coaching stock maintenance including Revised policy Circular -4
- Neutral train Examination
- Ride Index

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- Anti Telescopic features
- Maintenance of various components like DV, SAB, PEASD,
- Latest design improvements of Carriage & wagons to improve their performance
- and speed potential
- LHB Coaches & BLC Wagons
- Construction , Design & Maintenance of Tank Wagons

WORKSHOPS

- System of labour accountal GA Cards for time keeping documents, tally sheets, Job/Route Cards, inspection & rate fixing
- Rules & Calculations under incentive scheme
- Paints & painting systems
- Different types of machine tools such as lathes , milling machines ,shapers ,planers ,cutting tools & cutting speeds
- CNC machines
- CLW Pattern of Incentive Scheme, Group Incentive Scheme
- Different types of welding processes, welding defects
- Wheels, tyres & axles and their ultrasonic testing
- Heat treatment of ferrous items such as surface hardening ,annealing, normalizing etc
- Roller Bearing & Cartridge Bearings
- Injury free features in coaches
- Material handling

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