

Dated:- 20/04/2018

No:- ECR/HRD/GAZ/254/ASTE-30% (Gr.'B)/2018

Secy. to GM/ECR: For kind information of GM
PS-I to AGM: For kind information of AGM
SDGM/ECR/HJP
GM (P)/CORE/Allahabad
GM (P) NER/GKP & GM(P)/ER/KKK
General Manager/RITES/NDLS
CAO/RWP/Bela, CAO (GELF)/ECR/DMH,
PCSTE/ECR/HJP
CAO (Con)/MHX/ECR/PNBE, CAO/WP/PNBE
Chairman/RRB/Patna & MFP
DRM/ECR/DNR, MGS, DHN, SEE & SPJ
CSO/ECR/HJP, CPD/RE/DNR
Sr.DPO/ECR/DNR, MGS, DHN, SEE & SPJ
Sr.DSTE/ECR/ DNR, MGS, DHN, SEE & SPJ
CWM/PD/ECR/MGS, WS/SPJ & CRW/HRT
Dy.CPO/HRD & Dy.CSTE(Con.)/ECR/MHX
SPO(IC)/Con./MHX/Patna
Principal/ZRTI/E.C.Rly/Bhuli & MFP, Principal/STTC/DNR
SPO/MPP : for uploading on website.
All Extra Divisional Units

Sub:- Selection against Limited Departmental Competitive Examination (LDCE) for the post of ASTE (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 General Manager to hold a LDCE for selection and forming a panel of 02 posts (UR-01, SC-01, ST-00) for two selection period for the post of ASTE (Group B) against 30% quota over East Central Railway. Details of two vacancy periods are as under:-

	Vacancy Assessment Period	No. of Vacancies	Cut off date
(i)	01.01.14 to 30.06.16	01 (UR-00, SC-01, ST-00)	01.01.14
(ii)	01.07.16 to 31.12.18	01 (UR-01, SC-00, ST-00)	01.07.16

A panel shall be formed for each of the selection. The panels will be consolidated by placing the candidates selected against the both vacancy periods.

It is mentioned here that only one written examination will be held for both cycle of selection periods on the basis of consolidated panel and will have only prospective effect

TENTATIVE PROGRAMME OF WRITTEN EXAMINATION & VIVA-VOCE

- Date & Time of written examination : Will be notified in due course.
- Venue : To be notified in due course.
- Duration : 03 hours of each paper. (11.00 hrs to 14.00 hrs.)
- Viva-voce : Separate advice will be issued as per result of qualified Candidate(s)

(2) Eligibility:-

- (a) All permanent Group 'C' technical staff of S&T Department including those technical Group "C" staff who are working in other Railways /Units on deputation having lien and seniority over East Central Railway in Pay Band Rs.9300-34800 (PB-2) with Grade Pay Rs.4200/- (as per 6th CPC) Level 6 (as per 7th CPC) and above with 5 years of non-fortuitous regular service in the grade (including non-fortuitous service rendered in the corresponding pre-revised grades) as on 01.01.14 & 01.07.16 are eligible to volunteer to appear in the selection against LDCE for both cycle i.e 1st & 2nd cycle respectively.

N.B:- Since, 01 Vacancy of 1st Cycle (Cut off date 01.01.14) is reserved for SC candidate only, hence the SC candidate who will be considered for empanelment must fulfill the eligibility criteria as on 01.01.14

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(b) Those Gr.'C' employees who have been provided Grade Pay 4200/- in PB-2 as per 6th CPC(9300-34800) under ACP /MACP are not eligible to volunteer for the above written examination.

(c) 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 East Central Railway 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 on this Railway, 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.

(d) Candidates who has come on own request transfer / mutual transfer from other Railway and joined to this railway after cutoff date i.e 01.01.14 (1st Cycle) & 01.07.16 (2nd Cyle) respectively are not eligible to appear in this selection.

(3) **Eligible staff who desire to volunteer for the said LDCE may submit their application through proper channel to their respective Personnel Branch where they hold their lien and 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 and seniority. The Personnel /Controlling officers of the concerned division / units are advised 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 is given to this notification amongst all the eligible concerned staff. It is the personal responsibility of the Personnel/ Branch officers of the division / unit to ensure that the notification reaches to all the eligible employees well in time.

(6) All the volunteers who fulfill the conditions of eligibility mentioned in the para (2) above, 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 said selection 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 ASTE (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:-

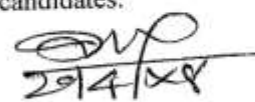
Subject	Maximum Marks	Qualifying marks	Remarks
Paper-I Professional subject & General (i.e General Knowledge, General Mathematics, Strength of Material and Physics & Basic Electricity)	150*	90	* Out of 150 marks, the professional subject will carry 100 marks in each paper.
Paper-II Professional subject, 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	Total 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 ASTE/Gr. 'B' in S&T Deptt. circulated by Railway Board vide RBE No. 113/2010 is also 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 for submission of application by the candidates duly countersigned by their controlling officer is **21.05.2018**

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 & other relevant records and certify the correctness of each columns of the application. Without such certification, application received will be summarily rejected and the responsibility will be fixed for incorrect or incomplete certification against the authority 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 suitable action.
- 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 applications of those who are not eligible 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 28.05.2018 positively** indicating therein the total number of applications forwarded. (The details should be sent in soft copy (MS Excel format also). The staff whose applications rejected may be intimated individually giving reasons thereof.

1	2	3	4	5	6	7	8		9			
							Date of Regular promotion to Grade Pay		Total service in Rs.4200 (GP) & above in S&T Deptt as on 01.01.14 & 01.07.16 respectively			
Sl	Name of the employee	Desig.	DOB	DOA	Working Under	Community (UR/SC/ST)	GP 4200	GP 4600	As on	Year	Month	Days
									01.01.14			
									01.07.16			

- (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 Branch 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 weeks (21 working days). PCSTE/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 PCSTE/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) As per rule, there is no provision for absentee exam in LDCE, so that eligible staff should also be advised that no absentee written examination would be held under any circumstances.

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- (18) The controlling/authorized officer should ensure to issue 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 **PS -II to Dy.CPO/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 (Annexure 'A')
ii) Syllabus (Annexure 'B')


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

SIGNATURE

**PROFORMA OF APPLICATION TO BE FILLED UP BY THE VOLUNTEER FOR SELECTION TO THE POST OF
ASTE/Gr. (B) AGAINST 30% QUOTA ATTACHED WITH THIS OFFICE NOTIFICATION NO.
ECR/HRD/GAZ/254/ASTE-30%(Gr.B)/2018 Dated.- 20/04/2018**

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 holding lien /seniority :-
7. Dt. of Joining in Present lien /seniority unit :-
8. (Please mentioned:-Direct Rectt. /Own request transfer/Mutual transfer/Administrative ground)-
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 S&T Deptt. :-

Pay-Band & Grade-Pay	Date	Month	Year
(a) Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)			
(b) 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 (S&T deptt.) as on 01.01.14 & 01.07.16 .

Pay-Band & Grade-Pay	As on	Year	Month	Days
(a) Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)	01.01.14 (1st Cycle)			
	01.07.16 (2nd Cycle)			
(b) Level 7 in 7 th CPC (PB-II, GP- 4600 in 6 th CPC)	01.01.14 (1st Cycle)			
	01.07.16 (2nd Cycle)			

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 do hereby 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
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):-

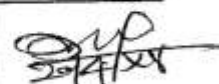
If the volunteer come under the circumstances mentioned in item no. 2(c) of the notification, the length of service rendered by immediate senior employee as on 01.01.14 & 01.07.16 should be indicated invariably in the following format.

N o	Name (S/Shri) of immediate senior	Desig.	Pay Band (II) & GP	As on	Year	Month	Day
			Level 6 in 7 th CPC (PB-II, GP- 4200 in 6 th CPC)	01.01.14			
				01.07.16			
			Level 7 in 7 th CPC (PB-II, GP- 4600 in 6 th CPC)	01.01.14			
				01.07.16			

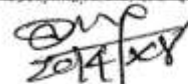
It is certified that the service particulars / Bio-Data furnished by Shri / Smt. _____
Designation _____ on the above proforma have been verified with his/her service record and found correct.
The above mentioned candidate is eligible (1st Cycle / 2nd Cycle) to appear in the said selection, accordingly 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.



Syllabus (Revised) for 30% LDCE for Promotion Group 'B' ASTE in Signal & Telecommunication Department		
Maximum Marks 150	Paper-I	Pass Marks 90
General	Part - I	50 Marks
I. General Knowledge		
<ul style="list-style-type: none"> This section would contain questions of general interest and importance, which is acquired by general observation or reading with out specific text book study. Subjects of national importance as well as achievements of Railways are also to be covered. The standard of General Knowledge shall not be more rigorous than Matriculate level. Official Language. 		
II. General Mathematics		
<ul style="list-style-type: none"> Arithmetic and statistical operations, graphs, fractions, percentage, sampling & averages Geometry - area & volume up to Higher Secondary/12th Standard level Algebra, simultaneous equations etc up to Higher Secondary/12th Standard level Mechanics - Velocity & acceleration, work done, horse power etc up to Higher Secondary/12th Standard level 		
III. Strength of Material		
<ul style="list-style-type: none"> Various Engineering materials and their properties, bearings, stress & strain, fatigue, hardness, corrosion & surface finish 		
IV. Physics & Basic Electricity		
<ul style="list-style-type: none"> Temperature & measurement Mechanics - Newton's law of motion, Velocity & Acceleration, Work, Energy, Power, Archimedes's principle etc Heat & work, expansion of solids, liquids & gases IC Engines, gas turbine heat recovery & thermal efficiency. Super charging & inter cooling Ohm's law, Coulomb's law, Faraday's Law, Voltage, Current & Resistance, Wet & Dry Batteries, Power Factor Simple motors & Dynamos- Principle of Working of Transformer, Relay, Fuse, Circuit Breaker Power Supply, AC&DC, Rectifiers 		
Professional Subject	Part - II	100 Marks
Note: - Four questions to be given from each part. Six questions to be answered, three from each part.		
Part A		
Rules & Manuals.		
Rules for Opening of a Railways, Signal Engineering Manual, Telecommunication Engineering Manual, Store Procedures and Practices, AC Traction Manual, Block Working Manual, Schedule of Dimensions, Operation Manual, Disaster Management, Accident		



Manual - Accident Classification, Causes of Accidents and their prevention, Duties of First Official reaching the Accident Site, Enquiries, Failure Analysis & Investigations.

Part B

Fundamental Engineering & Applied Technology, Simple Structures, Dynamics, Simple Machinery, Magnetism, Electricity, Sound, Electrical Machinery and Circuits, Fundamental Electronics & Electronic Circuits, Power Supply Equipment and Systems. Protection Systems against Lightning & Surges, Principles of Optics & Optical Fibre Cable, Principles of Digital Electronics - Boolean Algebra, Digital Devices and their Applications, Data Communication Principles & Information Technology - Familiarity with PC Specifications, Operating Systems - Windows, Operating and Application software, Basic LAN/WAN & Networking, Intranet/ Internet.

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Paper-II	
Maximum Marks 150	Pass Marks 90
Part - I	
Establishment and Financial Rules	50 Marks
I. Establishment Rules <ul style="list-style-type: none"> General conditions of services of Railway servants including rules regarding leave, joining time, passes etc Railway service D&A Rules -1968 & amendments Railway service Conduct Rules -1966 & amendment Retirement benefits Payment of wages, allowance & overtime Labour laws including Payment of Wages Act, Workmen's Compensation Act, Hours of Employment Regulations, Factory Act, Contract Labour Act Manpower Planning & Training Welfare measures in Railways PNM, JCM & PREM 	
II. FINANCIAL RULES <ul style="list-style-type: none"> Parliamentary control over Railway Finance - public accountability, canons of financial propriety Railway Budget - Budgetary terms, Types of Budgets, Budget cycle, Demand of Grants, Expenditure Classification Rule for allocation - Classification of Expenditure, Control over expenditure - Responsibility of accounting performance budgeting, Exchequer, General Financial results of working Work Programme - Financial justification of works, Survey, preparation of estimate, capital budget - Control over expenditure, capital expenditure, re-appropriation Financial Control over store expenditure - Purchase and stores keeping procedure - inventory control Financial and cost control in Railway Workshop Rules and Procedure relating to tenders and contracts for execution of works and procurement of stores, M&P Programme Procedure for processing and finalizing the audit objections and draft paras Delegation of Powers 	
Part - II	
Professional Subject	100 Marks
Note: - Four questions to be given from each part. Six questions to be answered, minimum one from each part and maximum three a part.	
Part A Signaling Mechanical & Electrical Interlocking, Interlocking plans and locking tables, Block Signaling, Electro-mechanical and Electrical Signaling, Automatic Signaling, Panel Interlocking, Route Relay Interlocking, Axle Counters, Track Circuits, Automatic Warning System, Train Protection & Warning System (TPWS) and/or Anti Collision Device (ACD), Centralized Traffic Control (CTC), <u>Electronic Interlocking (EI), Data Loggers & Networking, LED Signals, Block Freving by Axle Counters (BPAC), Audio Frequency Track Circuits (AFTC), Integrated Power Supply (IPS), etc.</u>	

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Part B**Telecommunication**

Overhead and underground cable system, control office and way station and emergency control communication equipment, Telephone exchange — automatic, specialized communication and allied equipment like STM, DWDM etc in Railways, comprising HF, VHF and Microwave, GSM-R and/or Tetra for Mobile Train Radio, OFC and Quad cable, Communication in RE area, Data communication & IP Networks, Digital Electronic Exchanges, ISDN, Network Management Systems, networks for PRS, FOS, TMS, UTS etc, Concept of GPS.

Part C

Workshop Practice - Raw material, processing, Workshop machines and their utilization, Overhauling Procedure and Practices, Inspection and Testing of components, Testing Procedure, commissioning and measurement, Integration, Testing & Certification of IPS/SMPS, DC-DC Converters, Inverters & Battery Chargers/Float Rectifiers, Block Instruments & Relays, Relay Technology - Different Types of Relays & their working, Block Instruments and Point Machines, Quality Control and Safety Practices.

2014/2015

