

पश्चिम मध्य रेल ,
प्रधान कार्यालय
कार्मिक विभाग, जबलपुर-482 001



West Central Railway
Headquarters Office
Personnel Deptt,
Jabalpur-482 001

No WCR/PHQ/GAZ/Selection/ASTE/Gr 'B'/LDCE/2019

Dated 23 /12/2020

**PCSTE,CSTE(C),CSE.CCE,SDGM
DRM-JBP,BPL,KOTA
Sr DSTE(co):JBP,BPL.Kota
Dy CSTE(Construction): JBP,BPL,Kota
GM(P) CORE /Prayraj,CPD/RE/JBP**

Sub: Notification for Selection for the post of **ADSTE/ASTE,Group 'B'**
(L - 8.) /Grade 9300-34800, GP 4800, S&T Deptt
30% LDCE quota.

Ref: LGS Notification Issued by this office letter No WCR/P.HQ/GAZ/ Selection
/ASTE/Gr.'B'/LGS/2-19 Dated: 24.06.2019

In continuation to above reference, it is proposed to conduct Limited Departmental Competitive Examination for the purpose of promotion from Group "C" to Group "B" service in the Signal & Telecommunication Department to empanel **07** employees (**UR-06, SC-01, ST-NIL**) against 30% of the vacancies assessed.

As per Railway board's letter No. E(GP)2005/2/61 dated 07.10.2016 vacant post of Group "A" has been added in total vacancies assessed in this notification as onetime exception. During selection procedure, if incumbent Group "A" officer join/posted in this railway due transfer/fresh recruitment, the said Group "A" vacancy will be adjusted.

The cut off date of eligibility for candidates for 30% LDCE is **10.01.2019**, which is same as the earlier part selection of 70% quota..

Eligibility

The scheme is open to all the Supervisory(Technical) staff of Signal & Telecommunication Department working in Gr. ` .5000-8000(RSRP)/ ` 9300-34800 Grade Pay Rs-4200, Pay Band-2/Lavel 6. and above who have put in a minimum of **5 (FIVE)** years regular service(Non fortuitous) in the grade as on **10.01.2019** (including non-fortuitous service rendered in the corresponding pre revised grade).

However, those Gr'C' employee who have been provided grade pay 4200 in PB-2 as per 6th CPC(Rs 9300-34800) under ACP/MACP are not eligible to volunteer for the above written examination.

The eligible staff should submit their **applications in triplicate in the proforma attached** on or before **22.01.2021** to their immediate supervisor and obtain his acknowledgement including serial number of entry of registration of their applications. The applications so received should be entered serially by the nominated supervisor in the register to be opened for the purpose and the serial number should be mentioned while giving the acknowledgement to the employee. One copy of the application may be retained in his office and the remaining two copies forwarded to the controlling officer. It is the responsibility of the immediate supervisor to ensure that the applications reach to the controlling officer (DRM/P s) on or before **31.01.2021** and acknowledgement is obtained. A specimen form marked 'A' of the register to be maintained in the office of the immediate superior is enclosed.

The employees who are on deputation or on sanctioned leave, transferred to other unit etc. should be advised by sending a special messenger & notification should be got noted by them.

SCRUTINY:

The unit in-charge will arrange to register the application so received, out of the 3 copies of applications received, one copy will be retained with the concerned unit and remaining 2 copies will be forwarded to Division/HQ as the case may be, through per bearer along with **soft copy in Excel Sheet as per the proforma given below** and with covering letter mentioning names of candidates applied for. **Only application of those staff whose lien is in West Central Railway is to be forwarded to this office. It is the responsibility of the divisions/units to certify the correctness of the eligibility of candidates for admission to the examination.** Each excel Sheet in proforma signed by the concern Personnel/Store officer.

Excel Sheet Proforma									
S.	Name (S/Shri)	Desig.	Caste	Deptt.	Division	DOB	DOA	DOP in 9300-34800 GP: 4200	DOP in 9300-34800 GP: 4600
						DD/MM/YYYY	DD/MM/YYYY	DD/MM/YYYY	DD/MM/YYYY

The Personnel/S&T Office in the Division will scrutinize the correctness of the eligibility as per the Service Record maintained by them. **After scrutinizing the application, the Division will send one copy of the eligible application only to HQ Personnel Branch in one bunch along with the list in the prescribed proforma in excel Sheet (Hard & Soft copy) before the due date and ensure that these applications reach Dy.CPO(G)/JBP/HQ Office/WCR by 10.02.2020.**

SCHEME OF EXAMINATION: (As per Railway Bd's L.No. E(GP)2019/2/5 Dt 08.07.2019 Master circula No.68)

- Pre-qualifying Examination :** There shall be a Pre-qualifying single paper examination of 100 marks which shall have 100% Objective type Multiple Choice Questions only.
- The distribution of marks will be as under :**

Technical subject	:	40 marks
General Knowledge including optional	:	30 marks
Questions On Official language Policy		
Establishment & Financial Rule	:	30 marks

Qualifying Marks : The candidate scoring 75% marks and above in Pre-qualifying examination shall be eligible for appearing in the main examination and for this, number of candidates should be restricted to 5 times the number of respective vacancies in order of merit.

- There shall be negative marking for incorrect answers. one –third of the marks allotted for each question will be deducted for every wrong answer.**

All objective type questions should carry equal marks

3.1. Ten percent of the 100 marks prescribed for written examination held as part of Selection should be set apart for question on official language policy and official language rules. While the employees should be encouraged to attempt the question on official language policy and official language rules, the question should not be compulsory.

3.2 To ensure the authenticity of the answers in Multiple Choice Question, no corrections of any type (viz. cutting, overwriting, scoring off a ticked answer & ticking another answer, erasing modifying the answer in any way) will be permitted. Zero marks will be awarded in such cases of corrections.

3.3. In the English as well as Hindi version of Question papers, every question should have four option numbered as A.B.C.D(only Capital letters) and answers to each question by the candidates should invariably be given in Capital Letters.

4. **Main examination** : The pre-qualifying examination will be followed by one descriptive type paper on professional subject comprising of 100 marks and the qualifying marks in the written examination will be 60% and above.
5. Written Examination will be conducted according to Syllabus

5.1. Viva Voce & Record of Service

	Max. Marks	Qualifying Marks
1. Viva Voce	25	30 (including at least 15 marks in the record of services)
2. Record of Service	25	

6. Training of SC/ST candidates

It may be noted that before conducting the written examination, mandatory Pre-selection coaching of 3-4 weeks (15-20 working days & should not be less than 60 hours) for eligible SC/ST candidates will be arranged by the department concerned in terms of Railway Board's letter No.E(GP) 2010/8/39 dated 28.8.2019. PCSTE/WCR is requested to nominate a JAG or above officer of S&T Department as an in-charge of Pre-selection coaching for the SC/ST candidates. The in-charge of Pre-Selection coaching will intimate the date and venue of the Pre-selection coaching to the eligible SC/ST candidates in due course.

Duty of the In-charge of the Pre-selection coaching (Nominated by PCSTE)

- To inform in writing through messenger to the concerned SC/ST employee with details of date, time & venue of coaching.
- To obtain in writing unwillingness for coaching, if, from the concerned SC/ST employee.

7. Syllabus for professional paper of LDCE :

The syllabus prescribed by the Board for written examination held as part of 30% LDCE in organized services constitute topics on Paper-I & Paper-II. In view of the aforementioned changes in pattern of the LDCEs, the topics on professional subjects divided in two segments as Paper-I and Paper-II shall be amalgamated and topics may be picked up for the Pre-qualifying and main examination.

Copy of the combined syllabus issued vide Railway Board letter No. E(GP)2006/2/34 dated 09.8.2010 (RBE No.113/2010) is enclosed for for general guidance purpose. It may be circulated to all the employees.

The candidates who qualify in the written test will be subjected to medical examination as per IRMM Para 530(a) & 532 (i) IRMM Vol.I 2000 (IIIrd Edition) and only those candidates who are found medically fit will be allowed to appear for viva-voce as per extent rules.

TENTATIVE CALENDER:

Last date of submission of application in units	22.01.2021
Last date of receipt of application in DRM office	31.01.2021
Last date of receipt of application in HQ	10.02.2021
Training of SC/ST employees to the written test will be conducted by the Division/HQ	
Date of written test	

It should be ensured that all the employees concerned are directed with the **identification certificate** for the Written Test on the date and time specified above, without fail. No leave of any kind should be granted to these employees which may result in their absence in the examination. They should also not be sent on line.

If any of the employees are on deputation and working under central/state/semi-government, undertaking and whose lien is maintained in this Railway, their Controlling

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Officers should be advised to inform the candidates(s) regarding the examinations provided they fulfill the requisite conditions.

To ensure that the eligible staff avails of the opportunity for appearing for the LDCE, wide publicity should be given by pasting a copy of the notification on the notice Board of the Division Office as well as the subordinate offices; Supervisor-in-charge should bring to the notice of the staff working under them about this LDCE. Copies of this notification should also be given to local branches of both the recognized Unions and Associations for their information.

Wide publicity may be given to the above notification. The final date, time and venue of written test will be intimated separately. Staff should keep themselves in readiness of written examination. Please acknowledge receipt of this letter.

This notification can also be seen in the website of WCR. 10.150.2.19.

Encl/- 1. Form A, Form B & Form C
2. Syllabus



(Rahul Shrivastava)

Dy. CPO(Gaz.)/WCR/JBP

For Principal Chief Personnel Officer

Copy to:

Secretary (E) Ministry of Railways, Railway Board, New Delhi.

Secy. to GM/WCR & AGM/WCR for information. Genl. Secy./WCRMS, WCREU, Zonal

Genl. Secy. All India SC/ST & All OBC Employees Association JBP for information.

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**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

RBE No.: 113/2010

No. E(GP)2006/2/34

New Delhi, dt: 09.08.2010

**The General Managers,
All Indian Railways and Production Units.**

**Sub: Syllabus for 30% LDCE for promotion to Group'B' post of
ASTE in Signal & Telecommunication Department of
Railways/Production Units.**

Ref: Railway Board's letter No. E(GP)79/2/30/5 dated 9.9.1980.

A revised syllabus for Limited Departmental Competitive Examination (LDCE) for promotion from Group'C' to Group'B' posts in Signal & Telecommunication Department of Railways/Production Units is enclosed for guidance. This may be given wide publicity and circulated amongst the eligible candidates.

2. The revised syllabus will be effective from the date of issue of this letter. However, LDCEs for which written examinations have already been held or which are at an advanced stage, need not be disturbed.

3. Please acknowledge receipt.

Encl: As above.


**(B. MAJUMDAR)
DIRECTOR/ESTT.(GP)
RAILWAY BOARD**

**Syllabus (Revised) for 30% LDCE for Promotion
Group 'B' ASTE in Signal & Telecommunication Department**

Paper-I	
Maximum Marks 150	Pass Marks 90
Part - I	
General	50 Marks
I. General Knowledge - 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 - 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 Various Engineering materials and their properties, bearings, stress & strain, fatigue, hardness, corrosion & surface finish	
IV. Physics & Basic Electricity - 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	
Part - II	
Professional Subject	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, <i>Disaster Management, Accident</i>	

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.

Paper-II

Maximum Marks 150

Pass Marks 90

Part - I

Establishment and Financial Rules

50 Marks

I. Establishment Rules

- 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

- 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), Electronic Interlocking (EI), Data Loggers & Networking, LED Signals, Block Proving by Axle Counters (BPAC), Audio Frequency Track Circuits (AFTC), Integrated Power Supply (IPS), etc.

4

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, FOIS, 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, Invertors & 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.